SOUTHERN CALIFORNIA



ASSOCIATION of GOVERNMENTS

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Ventura County: Judy Mikels, Ventura County • Glen Becerra, Simi Valley • Carl Morehouse, San Buenaventura • Toni Young, Port Hueneme

Orange County Transportation Authority: Lou Correa, County of Orange

Riverside County Transportation Commission:

Ventura County Transportation Commission: Keith Millhouse, Moorpark

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559-8/15/05

MEETING OF THE

ENERGY & ENVIRONMENT COMMITTEE

PLEASE NOTE CHANGE IN TIME
Thursday, February 2, 2006
9:45 a.m. - 10:45 a.m.

SCAG Offices 818 West 7th Street, 12th Floor Conference Room Riverside A Los Angeles, CA 90017 213.236.1800

If members of the public wish to review the attachments or have any questions on any of the agenda items, please contact Deby Salcido at 213.236.1993 or salcido@scag.ca.gov

Agendas and Minutes for the Energy & Environment Committee are also available at:

www.scag.ca.gov/committees/eec.htm

SCAG, in accordance with the Americans with Disabilities Act (ADA), will accommodate persons who require a modification of accommodation in order to participate in this meeting. If you require such assistance, please contact SCAG at (213) 236-1868 at least 72 hours in advance of the meeting to enable SCAG to make reasonable arrangements. To request documents related to this document in an alternative format, please contact (213) 236-1868.

ENERGY & ENVIRONMENT COMMITTEE

AGENDA

PAGE #

TIME

"Any item listed on the agenda (action or information) may be acted upon at the discretion of the Committee".

1.0 <u>CALL TO ORDER & PLEDGE OF</u> <u>ALLEGIANCE</u> Hon. Dennis Washburn, Chair

2.0 PUBLIC COMMENT PERIOD

Members of the public desiring to speak on an agenda item or items not on the agenda, but within the purview of the Committee, must fill out and present a speaker's card to the Assistant prior to speaking. A speaker's card must be turned in before the meeting is called to order. Comments will be limited to three minutes. The chair may limit the total time for all comments to twenty (20) minutes.

- 3.0 REVIEW and PRIORITIZE AGENDA ITEMS
- 4.0 CONSENT CALENDAR
 - 4.1 Approval Item
 - 4.1.1 Approve Minutes of January 5, 2006
 Attachment

01

- 4.2 Receive and File
 - 4.2.1 State & Federal Legislative Matrix
 Attachment mailed separately



ENERGY & ENVIRONMENT COMMITTEE

AGENDA

5.0

				PAGE #	TIME
)	ACTIO	ON ITEMS			
	5.1	Final fine particle (PM2.5) Conformity <u>Determination</u> Attachment	Jessica Kirchner SCAG Staff	05	10 Minutes
		Staff will present the new conformity finding	gs.		
		Recommended Action: Approve Fine Particle Conformity Determination for the 2004 RTP & 2004 RTIP and recommend that the Regional Council adopt Resolution			
	5.2	Conformity Determination and EIR Addendum for an RTP/RTIP Amendment Supplemental Attachment	Jessica Kirchner SCAG Staff	43	10 Minutes
		The 2004 RTP and RTIP amendments modify two projects in Orange County: the Centerline light rail and the SR-241 Foothill-South Toll Road. (TCC is considering approval of the Amendment)			
		Recommended Action: Approve the Conformity Determination and EIR Addendum for the 2004 RTP and RTIP.			
	5.3	Riverside County Transportation Commission TCM Substitution Attachment	Jessica Kirchner SCAG Staff	131	10 Minutes
		RCTC is proposing to replace a Transportation Control Measure (TCM) in the 2004 RTIP.			
		Recommended Action: Approve the TCM substitution in the 2004 RTIP.			



ENERGY & ENVIRONMENT COMMITTEE

AGENDA

PAGE #

TIME

6.0 INFORMATION ITEMS

7.0	WATER POLICY TASK FORCE REPORT	Hon. Dennis Washburn
8.0	SOLID WASTE TASK FORCE REPORT	Hon. Toni Young, Chair
9.0	CHAIR'S REPORT	Hon. Dennis Washburn, Chair
10.0	STAFF REPORT	Sylvia Patsaouras, SCAG Staff

11.0 FUTURE AGENDA ITEMS

Any Committee members or staff desiring to place items on a future agenda may make such request. Comments should be limited to three (3) minutes.

12.0 ANNOUNCEMENTS

13.0 ADJOURNMENT

The next meeting of the Energy and Environment Committee will be held on March 2, 2006, at the SCAG Office.



Action Minutes

THE FOLLOWING MINUTES ARE A SUMMARY OF ACTIONS TAKEN BY THE ENERGY AND ENVIRONMENT COMMITTEE. AUDIO CASSETTE TAPE OF THE ACTUAL MEETING IS AVAILABLE FOR LISTENING IN SCAG'S OFFICE.

The Energy and Environment Committee held its meeting at the Southern California Association of Governments, downtown Los Angeles. The meeting was called to order by Dennis Washburn, Vice-Chair. There was a quorum.

Members Present

Bertone, Denis SGVCOG
Campbell, Todd City of Burbank

Carroll, Stan City of La Habra Heights

Clark, Margaret City of Rosemead

Cook, Debbie City of Huntington Beach

Eckenrode, Norman

Forester, Larry (V-Chair)

Gafin, David

Hanks, Keith

City of Placentia

City of Signal Hill

City of Downey

City of Azusa

Marchand, Paul City of Cathedral City

Nelson, Larry
Van Arsdale, Lori
Washburn, Dennis (Chair)
City of Hemet
City of Calabasas

Members Not Present

Brennan, Brian VCOG

Carrillo, Victor City of Imperial
Harrison, Jon City of Redlands
King, Dorothy Gateway Cities COG

Lilburn, Penny SANBAG

Miller, Mike City of West Covina

Olivas, David J. SGVCOG

Portantino, Anthony City of La Canada/Flintridge

Streator, Joyce City of Pasadena Young, Toni City of Port Hueneme

Zerunyan, Frank SBCCOB

1.0 CALL TO ORDER & PLEDGE OF ALLEGIENCE

Hon. Dennis Washburn, Chair, called the meeting to order at 9:50 a.m. and led the group in the pledge of allegiance.

2.0 PUBLIC COMMENT PERIOD

No public comment.

Action Minutes

3.0 REVIEW and PRIORITIZE AGENDA ITEMS

4.0 CONSENT CALENDAR

It was MOVED (Denis Bertone), SECONDED (Larry Forester) and APPROVED the Consent Calendar. Paul Marchand and Larry Nelson ABSTAINED.

4.1 Approval Items

4.1.1 Action Minutes of December 1, 2005

4.2 Receive and File

4.2.1 SB 1024 (Perata) Public Works and Improvements

5.0 ACTION ITEMS

5.1 <u>Demand Response Community Partnership</u>

Jennifer Brost, SCAG Staff, presented information on a new partnership opportunity with Southern California Edison. This will be a no cost partnership to SCAG. When the program is more developed, it will be brought back for committee approval.

Cynthia Wooton from Luminex, representing Mike Martinez of Southern California Edison Demand Response Programs, was also available to respond to any questions regarding the partnership program.

It was MOVED (Larry Forester), SECONDED (Paul Marchand) and UNANIMOUSLY APPROVED to continue discussions with Southern California Edison, to develop a comprehensive plan for a demand response partnership.

5.2 Renew LA

Jacob Lieb, SCAG Staff, presented a report on this item. Jacob Lieb informed the committee that the support letter would define specifically SCAG's interest and concepts in this effort. The letter would also be previewed by the Solid Waste Task Force for additional input.

Action Minutes

It was MOVED (Margaret Clark), SECONDED (Paul Marchand), and UNANIMOUSLY APPROVED to recommend Regional Council support of the Renew LA program.

6.0 INFORMATION ITEMS

6.1 State Goods Movement Action Plan

Nancy Pfeffer briefed the committee on the current State Goods Movement Action Plan.

It was MOVED (Paul Marchand), SECONDED (Todd Campbell) and UNANIMOUSLY APPROVED to prepare a letter indicating the EEC would like to provide comments to all documents, but would require an extension of the deadline so it could properly respond.

6.2 RCP Open Space and Habitat Chapter

This item was continued to next month.

6.3 Subregional Audits

Hon. Sidney Tyler, Jr., Chair, Audit/Best Practices Subcommittee, presented information and status on the Subregional audits.

7.0 WATER POLICY TASK FORCE REPORT

The next meeting is scheduled for January 12, 2006, at the SCAG office. Meeting may need to be rescheduled due to conflicts.

8.0 SOLID WASTE TASK FORCE REPORT

December meeting was cancelled and is being rescheduled.

9.0 CHAIR'S REPORT

None

10.0 STAFF REPORT

None

Action Minutes

11.0 FUTURE AGENDA ITEMS

12.0 ANNOUNCEMENTS

13.0 ADJOURNMENT

There being no further business, Dennis Washburn, Chair, adjourned the meeting at 11:45 a.m. in the memory of Ed Mazery, past councilmember of the City of Thousand Oaks, and in recognition of Leslie Devine, councilmember of the City of Calabasas, who is in grave condition. The next meeting of the Energy and Environment Committee will be held at the SCAG office on February 2.

Action Minutes Approved

by:

Sylvia Patsaouras, Staff Energy and Environment

REPORT

DATE:

February 2, 2006

TO:

Energy and Environment Committee

Regional Council

FROM:

Jessica Kirchner, Associate Regional Planner, kirchner@scag.ca.gov, (213)236-1983

SUBJECT:

Conformity Finding for the Fine Particle Standard

EXECUTIVE DIRECTOR'S APPROVAL:

RECOMMENDED ACTION:

Approve the Transportation Air Quality Conformity Determination for the Fine Particle standard for the 2004 RTP and 2004 RTIP and recommend to the Regional Council to adopt Resolution 06-471-2.

(Regional Council action: to adopt Resolution 06-471-2)

SUMMARY:

The EEC released the Draft Fine Particle (PM2.5) Conformity Determination for public review and comment on November 22, 2005. The public comment period closed on January 5, 2006. A public hearing was held at SCAG on January 5, 2006. SCAG did not receive any public comments on the Draft Conformity Determination.

BACKGROUND:

The fine particle standard is a new federal health-based standard for particulate pollution that is 2.5 microns or smaller (particulate matter (PM2.5)). This new regulation requires the Southern California Association of Governments (SCAG) to receive approval from the United States Department of Transportation (USDOT) on SCAG's conformity determination on the 2004 Regional Transportation Plan (RTP) and the 2004 Regional Transportation Improvement Program (RTIP) by April 5, 2006 or the region risks a conformity lapse. Non-attainment area designations for the new fine particle standard became effective on April 5, 2005, and an approved conformity determination is required by April 5, 2006, one year after the effective date. A conformity determination consists of regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs), the use of the latest planning assumptions, appropriate documentation of findings, interagency consultation, and public involvement. The Fine Particle conformity determination reaffirms all of the applicable conformity findings for the 2004 RTP and 2004 RTIP and addresses additional analyses required for the new Fine Particle standard.

FISCAL IMPACT:

Mul Funds for air quality and conformity analysis are included in the FY 05/06 Overall Work Program.



RESOLUTION No. 06-471-2

RESOLUTION OF

SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS
TO ADOPT THE CONFORMITY DETERMINATION FOR THE FINE
PARTICULE (2.5) STANDARD FOR THE 2004 REGIONAL
TRANSPORTATION PLAN AND THE 2004 REGIONAL TRANSPORTATION
IMPROVEMENT PROGRAM

WHEREAS, the Southern California Association of Governments (SCAG) is the federally designated Metropolitan Planning Organization (MPO) pursuant to 23 U.S.C. §134(d) for the Counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura, and as such, is responsible for the preparation, adoption and regular revision of the Regional Transportation Plan (RTP) and the Regional Transportation Improvement Program (RTIP) pursuant to 23 U.S.C. §134 et seq. 49 U.S.C. §5303 et seq. and 23 C.F.R. §450.312;

WHEREAS, SCAG is the designated Regional Transportation Planning Agency (RTPA) under state law, and as such, is responsible for preparation of both the RTP and RTIP under California Government Code §§ 65080 and 65082 respectively;

WHEREAS, 42 U.S.C. § 7506(c)(1) requires SCAG's 2004 RTP and 2004 RTIP to conform with the applicable State Implementation Plan (SIPs) developed for the federal non-attainment and maintenance areas in the Mojave Desert Air Basin, the Ventura County portion of the South Central Coast Air Basin, the South Coast Air Basin, and the Salton Sea Air Basin;

WHEREAS, SCAG, as the designated MPO, is required to comply with Sections 174 and 176(c) and (d) of the Clean Air Act [42 U.S.C. §§ 7504, 7506(c) and (d)];

WHEREAS, 23 U.S.C. §134(j)(2)(C) and 23 C.F.R. §450.324(f)(2) requires the 2004 RTIP to be consistent with the 2004 RTP;

WHEREAS, 23 U.S.C. § 134 (c)(3) and 23 C.F.R. § 450.312 require SCAG, as the designated MPO, to maintain a continuing, cooperative and comprehensive transportation planning process in its development of the RTP and RTIP;

WHEREAS, SCAG has worked concurrently with local, state and federal jurisdictions in a continuing, cooperative and comprehensive manner as required by provisions of Federal and State law on the transportation planning processes;

WHEREAS, federal regulations at 23 C.F.R. § 450.332(e) require that in non-attainment and maintenance areas, funding priority be given to timely implementation of Transportation Control Measures (TCMs) contained in the applicable SIPs in accordance with the conformity regulations at 40 CFR Parts 51 and 93;

WHEREAS, non-attainment area designations for the new fine particle (PM2.5) standard became effective on April 5, 2005, and an approved conformity determination is required one year after the effective date;

WHEREAS, new federal conformity regulation for PM2.5 requires the Southern California Association of Governments (SCAG) to receive approval from the United States Department of Transportation (US DOT) on SCAG's conformity determination by April 5, 2006;

WHEREAS, fine particle (PM2.5) non-attainment area in the SCAG region includes only the South Coast Air Basin (SCAB);

WHEREAS, the Southern California Transportation Conformity Working Group (TCWG) and the Energy and Environment Committee developed an efficient process to obtain an approved PM2.5 conformity determination for the 2004 RTP and RTIP;

WHEREAS, the PM2.5 conformity determination entails reaffirming previously approved analyses and findings for the 2004 RTP and 2004 RTIP;

WHEREAS, the conformity rule interim emissions test, known as *less than baseline year*, requires demonstration that implementing the 2004 RTP and the 2004 RTIP is not projected to increase emissions of fine particles (PM2.5) in future years above the emissions in the baseline year 2002.

WHEREAS, the Draft Conformity Determination for the PM2.5 Standard was available for public review and comment from November 22, 2005 to January 5, 2006;

WHEREAS, a public hearing was conducted at the Southern California Association of Governments on January 5, 2006;

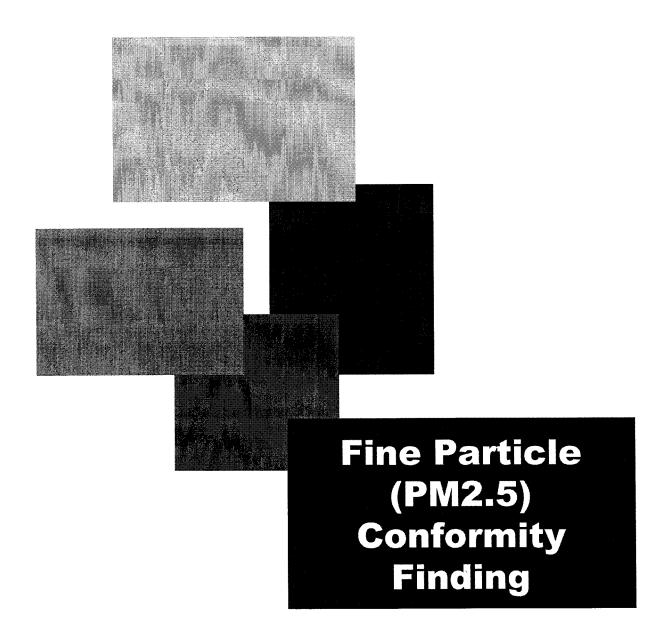
NOW, THEREFORE BE IT RESOLVED that

- (1) Southern California Association of Governments finds as follows:
 - (a) SCAG's 2004 RTP/RTIP regional emissions (build scenario) for direct PM2.5 emissions and PM2.5 precursors are less than the no-build emissions for the South Coast Air Basin;
 - (b) The conformity findings for both the 2004 RTP and the 2004 RTIP are reaffirmed for all applicable pollutants, including regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs) report, applying the use of the latest planning assumptions and the latest approved emissions model, reaffirming consistency between the adopted 2004 RTIP and the adopted 2004 RTP, and reaffirming the process for interagency consultation and public participation;
 - (c) In addition to reaffirming the already conducted public involvement and interagency consultation test for the 2004 RTP/RTIP, the PM2.5 conformity underwent the appropriate process for interagency consultation and public participation;

(2) The Regional Council hereby adopts the conformity findings for all federal non-attainment and maintenance areas in the SCAG region, and authorizes the Executive Director or his designee to transmit the Conformity Determination for the PM2.5 Standard for the 2004 RTP and the 2004 RTIP to the Federal Transit Administration and the Federal Highway Administration to make the final conformity determination in accordance with the Federal Clean Air Act and EPA Transportation Conformity Rule at 40 CFR Parts 51 and 93.

Adopted by the Regional Council of the Southern California Association of Governments at a regular meeting on this 2nd day of February 2006.

TONI YOUNG	
President, SCAG	
Councilmember, City of Po	ort Hueneme
, •	
Attest:	
MARK PISANO	
Executive Director	•
Approved as to Legal Forn	n:
	KAREN TACHIKI
	Legal Counsel



I. PREFACE

This conformity report covers all federally required analyses for the Fine Particle (PM_{2.5}) conformity determination for the 2004 Regional Transportation Plan (RTP) and 2004 Regional Transportation Improvement Program (RTIP). A conformity determination consists of regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs), the use of the latest planning assumptions, appropriate documentation of findings, interagency consultation, and public involvement. The Fine Particle conformity determination reaffirms all of the applicable conformity findings for the 2004 RTP and 2004 RTIP and addresses additional analyses required for the new Fine Particle standard. Additionally, per 40 CFR 93.122(g), the conformity determination relies on the previous regional emissions analyses as developed for the RTIP/RTP for NO2, CO and PM10 and for the 8-hour Ozone conformity determination approved by US Department of Transportation on May 12, 2005.

The Fine Particle standard is a new federal health-based standard for particulate pollution that is 2.5 microns or smaller (particulate matter (PM_{2.5})). This new regulation requires the Southern California Association of Governments (SCAG) to receive approval from the United States Department of Transportation (US DOT) on SCAG's conformity determination on the 2004 Regional Transportation Plan (RTP) and the 2004 Regional Transportation Improvement Program (RTIP) by April 5, 2006 or the region risks a conformity lapse. Non-attainment area designations for the new fine particle (PM_{2.5}) standard became effective on April 5, 2005, and an approved conformity determination is required by April 5, 2006, one year after the effective date.

Conformity Status of Adopted RTP and RTIP

The adopted 2004 RTP and 2004 RTIP conform to the air quality goals established by the State (air quality) Implementation Plan (SIP). Specifically, the 2004 RTP and RTIP will 1) not create new violations of the federal air quality standards, 2) not increase the frequency or severity of existing violations of the standards, and 3) not delay attainment of the standards.

The effective date for the conformity determination for the adopted 2004 RTP, including all of the air basins, is June 7, 2004, and the effective date of the federal conformity determination for the 2004 RTIP is October 4, 2004. The conformity determination for the adopted RTP is currently effective for three years; thus, the RTP conformity will remain effective until June 7, 2007. The conformity determination for the adopted RTIP is currently effective for two years; thus, the RTIP conformity will remain effective until October 4, 2006.

The Fine Particle conformity determination does not affect the existing conformity schedule for the RTP or RTIP. However, the new federal conformity regulation for PM_{2.5} requires the Southern California Association of Governments (SCAG) to make a positive conformity determination and receive approval from the United States Department of Transportation (US DOT) by April 5, 2006 or the region's conformity will lapse.

2004 RTP and RTIP Conformity Findings for the Fine Particle (PM2.5) Standard

The Southern California Transportation Conformity Working Group (TCWG) discussed an efficient process to obtain an approved PM_{2.5} conformity determination for the 2004 RTP and RTIP (August 23, 2005 http://www.scag.ca.gov/tcwg/), and staff presented this process to the SCAG Energy and Environment Committee on September 1, 2005. This process entails reaffirming previously approved air quality conformity analyses and findings for the 2004 RTP and 2004 RTIP and addressing additional analyses required by the new Fine Particle standard. This approach parallels the process for the 8-hour ozone conformity determination.

Proposed process for Fine Particle conformity determination on the 2004 RTP and RTIP:

- 1. Conduct ongoing public participation and interagency consultation throughout the process.
- 2. Perform regional emission analysis. PM_{2.5} is a new air quality standard with no established emission budgets, and requires an *interim emissions test*. The interim emissions test requires SCAG to demonstrate that implementing the 2004 RTP and the 2004 RTIP is not expected to cause PM_{2.5} emissions to exceed emissions in year 2002. This PM_{2.5} conformity determination includes regional emissions analysis for direct PM_{2.5} emissions and NOx as a PM_{2.5} precursor. The modeling years are the 2002 baseline year and 2010, 2020, and 2030.
- 3. Reaffirm the existing conformity findings for the 2004 RTP and 2004 RTIP.
- 4. Release the draft conformity analyses and documentation for the new $PM_{2.5}$ standard in November 2005 for a public comment period.
- 5. Hold a public hearing in January 2006.
- 6. Adopt the resolution making the final conformity determination in February 2006.
- 7. Send SCAG's Conformity Determination to the federal agencies for approval.
- 8. Approval by federal agencies before April 5, 2006.

Reaffirming approved conformity findings for NO2, Ozone, PM_{10} , and CO:

The fine particle conformity determination includes a reaffirmation of the approved conformity findings for both the 2004 RTP and the 2004 RTIP. This reaffirmation includes regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs) report, the use of the latest planning assumptions and the latest approved emissions model, and the appropriate documentation of findings, including reaffirming the process for interagency consultation and public participation.

II. FINE PARTICLE (PM_{2.5}) CONFORMITY REQUIREMENTS

Introduction

The Southern California Association of Governments (SCAG), the Metropolitan Planning Organization (MPO) for Southern California, is mandated to comply with all applicable federal and state transportation and air quality regulations. As stated above, the new federal conformity regulation for fine particles (PM_{2.5}) requires SCAG to receive approval from the United States Department of Transportation (US DOT) on SCAG's conformity determination by April 5, 2006. Non-attainment area designations for the new for fine particle (PM_{2.5}) standard became effective on April 5, 2005, and an approved conformity determination is required one year after

the effective date. If US DOT does not approve SCAG's determination by April 5, 2006, then the region's conformity will lapse.

Fine Particle (PM_{2.5}) Non-attainment Area

The South Coast Air Basin is the only PM_{2.5} non-attainment area in the SCAG Region and is illustrated in the map attached at the end of this report.

Table 1: SCAG Region - Fine Particle (PM2.5) Non-attainment Area

Non-attainment Area	Maximum Attainment Date		
South Coast Air Basin	2010 with a possible 5 year extension to		
(SCAB)	2015		

Interim Emissions Test for Fine Particle (PM2.5)

Fine particulate matter (PM_{2.5}) is a new air quality standard, and requires an interim emissions test. An interim emissions test is required before new emissions budgets, which establish the maximum allowable level of specific emissions for particular future years, are developed as part of the PM_{2.5} Air Quality Management Plan/State Implementation Plan (SIP). The interim emissions test for PM_{2.5} requires SCAG to run the regional transportation model and the state emissions model (Burden/EMFAC2002) for the year 2002 and for future milestone years, including 2010, 2020, and 2030. The interim emissions test employed for this PM_{2.5} conformity determination is called the *baseline year test*, which entails comparing PM_{2.5} emissions modeled for future milestone years to PM_{2.5} emissions in baseline year 2002. In order to pass the baseline year test, SCAG is required to demonstrate that implementing the 2004 RTP and the 2004 RTIP is not projected to increase emissions of fine particles (PM_{2.5}) in future years above the emissions in the baseline year 2002.

The final PM_{2.5} rule requires PM_{2.5} non-attainment areas to consider both direct PM_{2.5} emissions and significant precursor emissions. The final federal PM_{2.5} rule adds PM_{2.5} precursors, such as nitrogen oxides (NOx), to the transportation conformity regulations because these gases react and cool to form fine particles. Prior to the submission of the proposed PM_{2.5} State Implementation Plan (SIP/Air Quality Management Plan), direct PM_{2.5} emissions and NOx emissions must be considered in PM_{2.5} conformity determinations. For this initial PM_{2.5} conformity determination, no federal significance findings have been made to add any additional PM_{2.5} precursors, although additional PM_{2.5} precursors may be required for future conformity determinations after a PM_{2.5} State Implementation Plan has been submitted to US EPA, if additional PM_{2.5} precursors are determined to be important contributors to PM_{2.5} problems in the South Coast Air Basin.

Summary of the 2004 RTP and 2004 RTIP Regional Emissions Analyses for PM_{2.5}

- Emissions for the PM2.5 conformity determination were calculated using the annual output from the EMFAC2002 emissions model. Annual emissions were calculated by multiplying daily emissions by 365. Emissions output is shown in the Appendix at the end of this report.
- ➤ Baseline emissions for the year 2002 were calculated by constructing a network for 2002 and interpolating socioeconomic data.
- Future year emissions (2010, 2020 and 2030) were taken from the 2004 RTP/RTIP.
- ➤ To pass the baseline year interim regional emissions test for the conformity finding, projected direct PM_{2.5} emissions and NOx emissions must be less than or equal to direct PM_{2.5} emissions and the NOx emissions in the baseline year 2002.
- > Planning assumptions are documented in Appendix E of the 2004 RTP (p. E-28-E-42) and Technical Appendix Section II of the 2004 RTIP (p. II-5-II-17).
 - * EMFAC 2002 was used for Regional Emissions Analysis.
 - * Modeling networks for each milestone year are based on projects and completion dates included in Appendix I of the 2004 RTP and Technical Appendix Section II of the 2004 RTIP (beginning on p. II-60).

A summary of the regional emissions analysis (conformity findings) is tabulated below. Additional emissions data is provided in the Appendix at the end of this document.

24-hour PM_{2.5} Standard for South Coast Air Basin (SCAB)*

417 P	Pollutant	2010	2020	2030
PM _{2.5}	Baseyear emissions	13.27	13.27	13.27
	2004 RTP/RTIP	12.49	12.06	12.72
NO _x	Baseyear emissions	715.34	715.34	715.34
	2004 RTP/RTIP	417.99	192.74	125.75

Regional emissions generated using EMFAC 2002. To pass, RTP/RTIP emissions must be equal or less than baseyear emissions.

Annual PM_{2.5} Standard for South Coast Air Basin (SCAB)

	Pollutant	2010	2020	2030
PM _{2.5}	Baseyear emissions	4844	4844	4844
	2004 RTP/RTIP	4559	4402	4643
NO _x	Baseyear emissions	261,099	261,099	261,099
	2004 RTP/RTIP	152,565	70,351	45,898

Regional emissions generated using EMFAC 2002. To pass, RTP/RTIP emissions must be equal or less than baseyear emissions.

^{*} Based on annual average emissions

Conformity Determinations

SCAG has determined the following conformity findings for the 2004 RTP and 2004 RTIP under the required federal tests for the new fine particle (PM_{2.5}) standard:

Regional Emissions Tests

Finding: SCAG's 2004 RTP/RTIP regional emissions for direct PM_{2.5} and NOx are less than the baseline year 2002 for the 24-hour and the annual standard in the South Coast Air Basin.

Financial Constraint/Timely Implementation

> Since the 2004 RTIP, one of the TCMs (CenterLine) is being replaced; currently the substitute projects and the financial changes are being processed and will be reflected in an amendment.

Reaffirmation of 2004 RTP/RTIP Conformity Tests

Finding: SCAG reaffirms the applicable conformity findings for both the 2004 RTP/RTIP, which can be found at:

http://www.scag.ca.gov/rtp2001/2004draft/techappendix/FinalTechAppend.htm and:

http://www.scag.ca.gov/RTIP/final04/Sec1.pdf.

➤ This reaffirmation covers the findings for all applicable pollutants, including regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs) report, applying the use of the latest planning assumptions and the latest approved emissions model, reaffirming consistency between the adopted 2004 RTIP and the adopted 2004 RTP, and reaffirming the process for interagency consultation and public participation.

Inter-agency Consultation and Public Involvement Test

➤ Finding: In addition to reaffirming the already conducted public involvement and interagency consultation test for the 2004 RTP/RTIP, the fine particle (PM_{2.5}) conformity determination underwent an appropriate process for interagency consultation and public participation. This process included Transportation Conformity Working Group consultations on August 23, 2005 October 25, 2005, and December 27, 2005; Energy and Environment Committee updates on September 1, 2005 and November 3, 2005 and a briefing of the Subregional Coordinators on October 27, 2005. An announcement of the public comment period was placed on the SCAG website on November 22, 2005. Copies of the PM_{2.5} Conformity Determination packet were distributed to twelve regional libraries. A formal Public Hearing was held at SCAG's offices on January 5, 2006. This event was advertised in several regional newspapers in December of 2005, including the Imperial Valley Press, La Opinion, Long Beach

Press Enterprise, Los Angeles Times, Orange County Register, San Bernardino Sun, Riverside Press-Enterprise, and Ventura Star.

REGIONAL EMISSIONS ANALYSES

SOUTH COAST AIR BASIN (SCAB)

The South Coast Air Basin (SCAB) covers the urbanized portions of Los Angeles, Orange, Riverside, and San Bernardino counties, and is within the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

Particulate Matter 2.5 – 24 Hour Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	12.49	12.07	12.71
Exhaust	10.48	9.49	8.83	9.20
Tire Wear	0.83	0.9	0.98	1.08
Brake	1.97	2.1	2.25	2.44
Total PM _{2.5} Exhaust	13.27	12.49	12.06	12.72
Baseyear Emissions	13.27	13.27	13.27	13.27
Difference (plan – baseyear)	N/A	-0.78	-1.21	- 0.55

Conformity finding requirement: PM_{2.5} plan emissions must be equal or less than baseyear.

Particulate Matter 2.5 – Annual Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	4559	4406	4639
Exhaust	3,825	3,464	3,223	3,358
Tire Wear	303	329	358	394
Brake	719	767	821	891
Total PM _{2.5} Exhaust	4,844	4,559	4,402	4,643
Baseyear Emissions	4,844	4,844	4,844	4,844
Difference (plan – baseyear)	N/A	-285	-442	-201

Conformity finding requirement: PM_{2.5} plan emissions must be equal or less than baseyear.

Oxides of Nitrogen - 24 Hour Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	417.99	192.74	125.75
Baseyear Emissions Difference (plan – baseyear)	71 5.34 N/A	715.34 -297.35	715.34 -522.60	715.34 -589.59

Conformity finding requirement: PM_{2.5} plan emissions must be equal or less than baseyear

Oxides of Nitrogen - Annual Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	152,565	70,351	45,898
Baseyear Emissions Difference (plan – baseyear)	261,099 N/A	261,099 -108,534	261,099 -190,748	261,099 -251,201

Conformity finding requirement: $PM_{2.5}$ plan emissions must be equal or less than baseyear.

SUMMARY OF EMISSIONS ANALYSIS OF ADDITIONAL CRITERIA POLLUTANTS

In addition to the regional emissions analysis for PM_{2.5}, below is a summary of the regional emissions analysis for additional criteria pollutants in the SCAG region. For more detailed tables, see Technical Appendix Section II of the 2004 RTIP (p. II-11 to II-59). All emissions are in tons per day.

South Coast Air Basin (SCAB)

Nitrogen Dioxide (NOx) -Winter

NO _x	YR 2005	YR 2010	YR 2020	YR 2030
BUDGET	686.000	686.000	686.000	686.000
2004 RTIP	613.664	448.827	205.602	132.970

Conformity finding requirement: the NOx emissions must be equal or less than emission budgets.

Carbon Monoxide (CO) – Winter

<u>CO</u>	YR 200 <u>5</u>	YR 2010	<u>YR 2020</u>	<u>YR 2030</u>
BUDGET	3,361.000	3,361.000	3,361.000	3,361.000
2004 RTIP	2,597.739	1,809.900	859.679	529.757

Conformity finding requirement: the CO emissions must be equal or less than emission budgets.

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

ROG	YR 2006	YR 2010	YR 2020	YR 2030
BUDGET	251.000	251.000	251.000	251.000
2004 RTIP	245.350	189.074	106.433	72.495
<u>NOx</u>				
BUDGET	549.000	549.000	549.000	549.000
2004 RTIP	534.144	418.005	192.723	125.728
<u>PM10</u>				
BUDGET	166.000	166.000	166.000	166.000
2004 RTIP	165.927	163.375	161.520	163.893

Conformity finding requirement: the ROG, NOx, and PM10 emissions must be equal or less than emission budgets.

Ozone - Summer

Ozone Precursor					
ROG (VOC)	YR 2005	YR 2008	YR 2010	YR 2020	YR 2030
BUDGET	263.000	216.000	155.000	155.000	155.000
2004 RTP/RTIP	258.467	212.754	151.339	107.230	73.127
<u>NOx</u>					
BUDGET	546.000	546.000	352.000	352.000	352.000
2004 RTP/RTIP	542.271	453.459	349.	184.2	120.8

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

Nitrogen Dioxide (NO2) - Winter

NO2 Precursor

NOx	YR 2005	YR 2010	YR 2020	YR 2030
BUDGET	686.000	686.000	686.000	686.000
2004 RTP/RTIP	6153.664.091	448.586	205.751	132.980

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

Mojave Desert Air Basin (MDAB)

(San Bernardino County portion of MDAB excluding Searles Valley)

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

<u>PM10</u>	YR 2005	YR 2010	YR 2020	YR 2030
2004 RTIP No-	7.875	9.066	10.966	13.262
Build	7.837	8.843	10.889	13.046
2004 RTP Plan	1.837	0.0 4 3	10.009	13.040

Conformity finding requirement: the Plan scenario's emissions must be equal or less than the No-Build scenario's emissions.

Western Mojave Desert Air Basin (MDAB)

Ozone - Summer

Ozone Precursor					
ROG (VOC)	YR 2005	YR 2007	YR 2010	YR 2020	YR 2030
BUDGET	21.900	19.100	19.100	19.100	19.100
2004 RTP/RTIP	18.800	16.436	13.330	7.690	6.340
<u>NOx</u>					
BUDGET	56.000	52.100	52.100	52.100	52.100
2004 RTP/RTIP	52.510	48.38	41.750	19.310	4.360

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

Salton Sea Air Basin (SSAB) - Coachella Valley

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

<u>PM10</u>	YR 2006	YR 2010	YR 2020	<u>YR 2030</u>
BUDGET	10.900	10.900	10.900	10.900
2004 RTIP Plan	9.168	9.484	10.044	10.671

Conformity finding requirement: the PM10 emissions must be equal or less than emission budgets.

Ozone - Summer

Ozone Precursor ROG (VOC) BUDGET 2004 RTP/RTIP	YR 2005	YR 2007	YR 2010	YR 2013	YR 2020	YR 2030
	4.600	4.100	4.100	4.100	4.100	4.100
	4.310	3.906	3.361	2.867	2.234	1.838
NOx BUDGET 2004 RTP/RTIP	12.300 12.008	11.100 11.016	11.100 9.305	11.100 7.623	11.100 4.913	11.100 3.460

Conformity finding requirement: the Build emissions must be less than the No-Build emissions.

Salton Sea Air Basin (SSAB) - Imperial County

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

PM10	YR 2005	YR 2010	<u>YR 2020</u>	<u>YR 2030</u>
2004 RTIP No-Build	5.577	6.339	8.306	10.252
2004 RTIP Plan	5.574	6.334	7.798	9.610

Conformity finding requirement: the Plan scenario's emissions must be equal or less than the No-Build scenario's emissions.

Ozone - Summer

Ozone Precursor				
ROG (VOC)	YR 2005	YR 2010	YR 2020	YR 2030
No build (Baseline)	8.850	7.230	5.630	5.720
Build (Plan)	8.845	7.220	5.610	5.690
<u>NOx</u>				
No-Build (Baseline)	12.725	11.800	8.881	7.810
Build (Plan)	12.720	11.790	8.880	7.790

Conformity finding requirement: the Build emissions must be less than the No-Build emissions

Ventura County - South Central Coast Air Basin (VC/SCCAB)

Ozone - Summer

Ozone Precursor				
ROG (VOC)	YR 2005	YR 2010	YR 2020	YR 2030
BUDGET	14.300	14.300	14.300	14.300
2004 RTP/RTIP	14.180	10.670	6.160	4.170
NO _x				
BUDGET	21.400	21.400	21.400	21.400
2004 RTP/RTIP	21.190	15.170	6.800	4.350

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

THE STATE OF TOWN THE PROTECTION

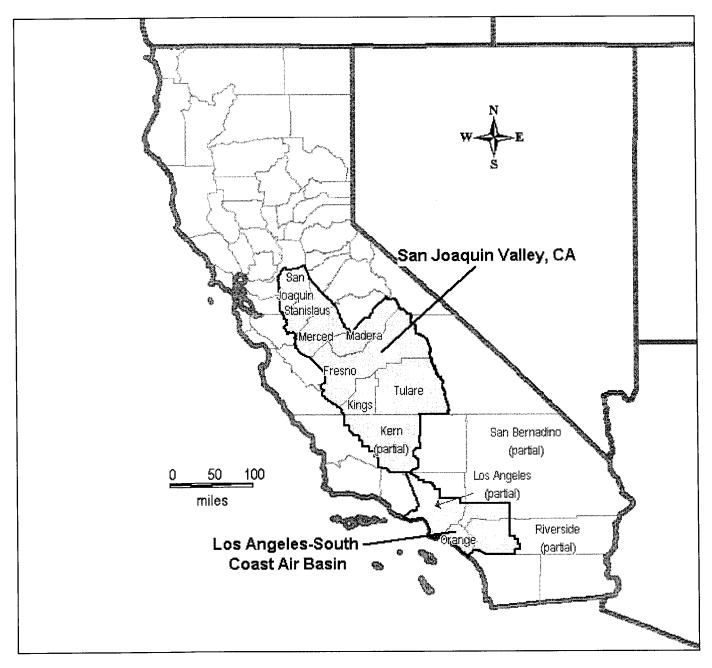
U.S. Environmental Protection Agency

Fine Particle (PM 2.5) Designations

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EPA Home > Air & Radiation > Six Common Air Pollutants > Particulate Matter > PM2.5 Designations > California Map

California PM 2.5 Designations Map



APPENDIX

YEAR 2002 - annual (02rr.zip)

Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2002 -- Model Years: 1965 to 2002

Run Date: 09/30/05 14:59:28 Season : Annual

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	HIC	115150	2705	87191	4.92	80.09	30.04	0.46	0.00	0.02	0.48	0.24	133.30	79.87
	SUM	9394690	331939	64231700	350.47	3517.31	722.16	10.48	0.83	1.97	13.27	5.12	16432.18	3334.11

Banning Area is included in SCAB, not in Coachella Valley
SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others
L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle
HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck
OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

CO = 2796.69 NOx = 279.42802SCAB.pm 802BRDN.SUM SCAB R2202 : VOC = 254.74 D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

Run Date: 09/30/05 14:01:30

Season: Annual

YEAR 2010 - annualPLAN (10p.zip)
Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled **
Scen Year: 2010 -- Model Years: 1965 to 2010

SURA(SCAB) HDT 206188 14192 502447 16.38 10497 17796 2.03 Tire W Brake W PMZ-5cm Tire W Brake W PMZ-5cm Moral Brake W PMZ-5cm Tire W Brake W PMZ-5cm Cops	ROG CO NOX PM2.5cx Tire W Brake W PM2.5sum SOx 16.38 1104.97 137.96 2.03 0.09 2.21 0.25 98.77 1015.22 96.71 3.47 0.41 1.09 4.97 0.87 2.35 27.00 16.94 0.28 0.00 0.01 0.29 0.02 117.59 1147.19 251.58 5.78 0.07 0.01 0.29 0.02 3.41 21.51 252.18 5.78 0.02 0.04 0.02 0.02 0.69 8.67 1.07 0.16 0.44 2.20 0.03 0.03 0.69 8.67 4.23 0.07 0.00 0.00 0.08 0.03 0.06 0.00 3.74 2.691 43.76 0.55 0.02 0.03 0.06 0.00 0.00 0.00 0.00 2.61 17.29 16.32 0.67 0.09 0.03 0.06	ACE NO E IOMBA	E CADA	MISSIONS (Emiss	sions in tone.		es, Fuel Consumption in 1000-gallors	nption in 1000	O-gailons)			Friday, Septa	Friday, September 30, 2005	2:05:33 PM	PM	Page (1)
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OTH 26894 568 16916 0.09 8.07 4.25 0.09 0.04 2.20 0.39 357.15 SUM 2388720 74280 15637400 37.74 341.52 63.20 1.58 0.04 2.20 0.03 0.61 0.08 89.457 HDT 57553 4738 1383733 4.14 26.91 43.76 0.55 0.02 0.03 0.61 0.08 0.09 0.08 0.00 0.00 0.00 24.78 OTH 23474 467 10916 0.48 7.28 2.61 0.07 0.02 0.03 0.06 0.00	OTH 26894 568 16916 0.69 8.07 4.23 0.59 0.28 0.69 0.29 0.29 0.29 0.03 0.61 0.08 SUM 2388720 74280 15637400 37.74 341.52 63.20 1.58 0.03 0.04 2.20 0.03 L&M 1013900 39602 6267361 15.50 172.49 16.32 0.67 0.09 0.23 1.00 0.08 OTH 23474 467 10916 0.48 7.28 2.61 0.04 0.00		L&M	2310804	70238	14317107	33.00	511.5	17.77	0.0		9	0.08	0.00	28.45	40.39
SUM 2388720 74280 15637400 37.74 341.52 63.20 1.58 0.18 0.44 2.20 0.03 0.61 0.08 89.94 HDT 57553 4738 1383733 4.14 26.91 43.76 0.55 0.02 0.03 0.61 0.08 89.94 LEM 1013900 39602 6267361 15.50 172.49 16.32 0.67 0.09 0.23 1.00 0.08 0.01 0.06 0.00 <th< td=""><td>SUM 2388720 74280 15637400 37.74 341.52 63.20 1.38 0.18 0.44 2.0 HDT 57553 4738 1383733 4.14 26.91 43.76 0.55 0.02 0.03 0.61 0.08 L&M 1013900 39602 6267361 15.50 172.49 16.32 0.67 0.09 0.23 1.00 0.18 OTH 23474 467 10916 0.48 7.28 2.61 0.04 0.00<</td><td></td><td>HILO</td><td>26894</td><td>268</td><td>91691</td><td>0.69</td><td>œ.0</td><td>67.4</td><td>5</td><td>3 :</td><td>3</td><td>000</td><td>0.00</td><td>31 7535</td><td>505.71</td></th<>	SUM 2388720 74280 15637400 37.74 341.52 63.20 1.38 0.18 0.44 2.0 HDT 57553 4738 1383733 4.14 26.91 43.76 0.55 0.02 0.03 0.61 0.08 L&M 1013900 39602 6267361 15.50 172.49 16.32 0.67 0.09 0.23 1.00 0.18 OTH 23474 467 10916 0.48 7.28 2.61 0.04 0.00<		HILO	26894	268	91691	0.69	œ.0	67.4	5	3 :	3	000	0.00	31 7535	505.71
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OTH 23474 467 10916 0.48 7.28 2.61 0.04 0.00 <th< td=""><td>OTH 23474 467 10916 0.48 7.28 2.61 0.04 0.00 <th< td=""><td>(1)</td><td>1 & M</td><td>1013900</td><td>39602</td><td>6267361</td><td>15.50</td><td>172.49</td><td>16.32</td><td>0.67</td><td>60.0</td><td>0.23 0.23</td><td>20.0</td><td>9 6</td><td>97.70</td><td>20 66</td></th<></td></th<>	OTH 23474 467 10916 0.48 7.28 2.61 0.04 0.00 <th< td=""><td>(1)</td><td>1 & M</td><td>1013900</td><td>39602</td><td>6267361</td><td>15.50</td><td>172.49</td><td>16.32</td><td>0.67</td><td>60.0</td><td>0.23 0.23</td><td>20.0</td><td>9 6</td><td>97.70</td><td>20 66</td></th<>	(1)	1 & M	1013900	39602	6267361	15.50	172.49	16.32	0.67	60.0	0.23 0.23	20.0	9 6	97.70	20 66
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FIDT 41683 3153 969645 2.65 17.20 30.59 0.38 0.02 0.01 0.43 0.03 0.01 0.43 0.05 0.01 0.43 0.05 0.01 0.43 0.05 0.01 0.04 0.04 0.04 0.03 0.03 0.04 0.04 0.03 0.03 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 1497.59 OTH 16085 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.00 0.00 0.00 1564.71 SUM 985269 34041 6717410 17.29 145.89 241.50 3.40 0.18 0.15 3.74 0.42 490.96 HDT 35642 25.56 8680250 26.57 170.59 241.50 5.66 0.71 1.93 8.30 1.52.07 L&M 9741992 354105 68952100	FIDT 41683 3153 969645 2.65 17.20 30.59 0.38 0.02 0.01 0.43 0.05 L&M 927501 30587 5737958 14.33 137.96 13.29 0.45 0.06 0.01 0.07 0.04 OTH 16085 301 9798 0.31 4.74 1.96 0.03 0.00 0.00 0.03 0.00 OTH 16085 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.20 0.00 SUM 985269 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.20 0.10 0.20 SUM 985269 34041 6717417 162.34 163.70 156.09 5.66 0.71 1.93 8.30 1.52 1 L&M 9741992 325466 60174217 162.34 163.70 156.09 5.66 0.71 1.93 8.30 1.59 1		H i	4/457	2007	000037	20.12	206.67	62.71	1.27	0.12	0.27	1.66	0.26	2055.28	081./1
HDT 41683 3153 969645 2.65 17.20 30.59 0.38 0.02 0.01 0.43 0.05 52.33 L&M 927501 30587 5737958 14.33 137.96 13.29 0.45 0.06 0.17 0.70 0.14 1497.59 OTH 16085 306 306 0.00 0.00 0.00 0.00 0.03 0.00 14.78 SUM 985269 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.20 1.16 0.20 14.78 HDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.18 0.15 3.74 0.42 490.96 HDT 356442 25556 8680250 26.57 170.59 241.50 3.60 0.18 0.15 3.74 0.42 490.96 HDT 31134 3083 97559 3.82 47.68 25.74 0.43 0.00 <td>HDT 41683 3153 969645 2.65 17.20 30.59 0.38 0.02 0.01 0.43 0.05 L&M 927501 30587 5737958 14.33 137.96 13.29 0.45 0.06 0.17 0.70 0.14 OTH 16085 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.00 0.00 0.00 SUM 985269 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.20 0.00 0.00 HDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.18 0.15 3.74 0.42 L&M 941992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 1 OTH 131134 3083 97559 3.82 47.68 25.74 0.43 0.00 0.00 0.05 0.45<!--</td--><td></td><td>SUM</td><td>1094930</td><td>44000</td><td>0707001</td><td>******</td><td></td><td>į</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	HDT 41683 3153 969645 2.65 17.20 30.59 0.38 0.02 0.01 0.43 0.05 L&M 927501 30587 5737958 14.33 137.96 13.29 0.45 0.06 0.17 0.70 0.14 OTH 16085 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.00 0.00 0.00 SUM 985269 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.20 0.00 0.00 HDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.18 0.15 3.74 0.42 L&M 941992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 1 OTH 131134 3083 97559 3.82 47.68 25.74 0.43 0.00 0.00 0.05 0.45 </td <td></td> <td>SUM</td> <td>1094930</td> <td>44000</td> <td>0707001</td> <td>******</td> <td></td> <td>į</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		SUM	1094930	44000	0707001	******		į							
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L&M 927501 30587 5737958 14.33 137.96 13.29 0.45 0.00 0.00 0.00 14.78 14.88 0.31 47.4 1.96 0.03 0.00 0.00 14.78 14.78 15.91 45.85 0.87 0.09 0.00 0.00 0.00 14.78 14.78 14.78 14.78 15.91 45.85 0.87 0.09 0.00 0.00 0.00 14.78 14.78 156.71 156.71 156.71 156.71 156.72 156.72 156.73 167.73 156.73 156.73 156.73 156.73 156.73 156.73 156.73 167.73 156.73 156.73 156.73 156.73 156.73 156.73 156.73 156.73 156.73 156.73	L&M 927501 30587 5737958 14.33 137.96 13.29 0.45 0.05 0.01 0.17 0.00 OTH 16085 301 9798 0.31 4.74 1.96 0.03 0.00	SBD(SCAB)		41683	3153	769645	7.03	17.70	20.00			0.17	62.0	0.14	1497 50	4.83
OTH 1,085 31 978 0,31 4.74 1.96 0,03 0,00 0,00 0,00 0,00 14.78 SUM 985269 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.20 1.16 0.20 156.71 SUM 985269 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.20 1.16 0.20 156.71 HDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.18 0.15 3.74 0.42 490.96 L&M 9741992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 16152.07 COTH 131134 3083 97559 3.82 47.68 25.74 0.43 0.00 0.02 0.45 0.05 16790.99 SUM 10229600 354105 68952100 192.74 1855.29	OTH 1685 301 9798 0.31 4.74 1.96 0.03 0.00 0.03 0.00 SUM 985269 34041 6717410 17.29 159.91 45.85 0.87 0.09 0.20 1.16 0.20 FIDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.18 0.15 3.74 0.42 L&M 9741992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 1 OTH 131134 3083 97559 3.82 47.68 25.74 0.43 0.00 0.00 0.05 0.45 0.05 SUM 10229600 354105 68952100 192.74 1855.29 423.34 9.50 0.90 2.10 12.49 1.99 1			027501	30587	5737958	14.33	137.96	13.29	0.43	9.00	0.17	0.7	+ 1.5		30.01
OTH 10083 3501 3773 1729 15991 45.85 0.87 0.09 0.20 1.16 0.20 1564.71 SUM 982569 34041 6717410 1729 159.91 45.85 0.87 0.09 0.20 1.16 0.20 156.71 HDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.18 0.15 3.74 0.42 490.96 L&M 9741992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 16152.07 L&M 9741992 3683 97559 3.82 47.68 25.74 0.43 0.00 0.02 0.45 0.05 147.98 OTH 131134 3083 97559 1855.29 423.34 9.50 0.90 2.10 12.49 1.99 16790.99	OTH 10083 3501 7779 1729 159.91 45.85 0.87 0.09 0.20 1.16 0.20 SUM 985269 34041 6717410 1729 159.91 45.85 0.87 0.09 0.20 1.16 0.20 HDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.18 0.15 3.74 0.42 L&M 9741992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 1 OTH 131134 3083 97559 3.82 47.68 25.74 0.43 0.00 0.02 0.45 0.05 SUM 10229600 354105 68952100 192.74 1855.29 423.34 9.50 0.90 2.10 12.49 1.99 1			10071		0020	0.31	474	196	0.03	000	0.0	0.03	0.00	14.78	CK.07
SUM 98269 34041 011410 11.23 125.14 (6.14) 11.23 12.24 (6.14) 12.29 (7	SUM 983269 34041 0/1/410 1/29 19331 0.18 0.15 3.74 0.42 1.24 11017 35642 25556 8680250 26.57 170.59 241.50 3.40 0.18 0.15 3.74 0.42 1.24 1.354 1.377 0.156.09 5.66 0.71 1.93 8.30 1.52 1.24 0.71 1.134 3083 97559 3.82 47.68 25.74 0.43 0.00 0.02 0.45 0.05 0.05 0.07H 131134 3083 97559 192.74 1855.29 423.34 9.50 0.90 2.10 12.49 1.99 1		E C	10065	100	0776	1 20	16001	45.85	0.87	0.09	0.20	1.16	0.20	1564.71	492.11
HDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.18 0.15 3.74 0.42 490.96 1.52 HDT 356442 25556 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 16152.07 1.52 0.05 0.05 0.05 0.05 147.98 0.05 0.05 0.45 0.05 147.98 0.05 0.05 0.45 0.05 16790.99 SUM 10229600 354105 68952100 192.74 1855.29 423.34 9.50 0.90 2.10 12.49 1.99 16790.99	HDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.18 0.15 3.74 0.42 1.22 1.24 9741992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 1.22 1.24 131134 3183 97559 3.82 47.68 25.74 0.43 0.00 0.02 0.45 0.05 0.05 0.05 0.05 0.05 0.05 0.05		SUM	692586	34041	0/1/410	67:11	17.7.1	3	<u></u>						
HDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.10 0.13 3.77 0.72 16152.07 L&M 9741992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 16152.07 0.74 131134 3083 97559 3.82 47.68 25.74 0.43 0.00 0.02 0.45 0.05 147.98 0.74 10229600 354105 68952100 192.74 1855.29 423.34 9.50 0.90 2.10 12.49 1.99 16790.99	HDT 356442 25556 8680250 26.57 170.59 241.50 3.40 0.10 0.13 3.77 0.72 1.22 1.24 1.24 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25									1 9	9.0	91.0	2.74	CF ()	400 96	3593.40
L&M 9741992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 16152.07 1.28M 9741992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 16152.07 1.48M 9741992 33.82 47.68 25.74 0.43 0.00 0.02 0.45 0.05 147.98 0.71 131134 3083 68952100 192.74 1855.29 423.34 9.50 0.90 2.10 12.49 1.99 16790.99 350 0.90 2.10 12.49 1.99 16790.99	L&M 9741992 325466 60174217 162.34 1637.00 156.09 5.66 0.71 1.93 8.30 1.52 1 L&M 9741992 325466 60174217 162.34 1637.00 156.09 5.74 0.43 0.00 0.02 0.45 0.05 0.07H 131134 3083 97559 3.82 47.68 25.74 0.43 0.00 0.02 0.45 0.05 0.05 0.05 0.05 0.05 0.05 0.05	7010 0100	T	CVVYSE	75556	8680250	26.57	170.59	241.50	3.40	0.18	C1.5	5.73	7.5		
9741992 32540 001721 3083 97559 3.82 47.68 25.74 0.43 0.00 0.02 0.45 0.05 147.98 131134 3083 97559 13.82 47.68 25.74 0.43 0.00 0.00 0.02 0.45 0.05 147.98 10229600 354105 68952100 192.74 1855.29 423.34 9.50 0.90 2.10 12.49 1.99 16790.99	9/41992 523400 0002 01759 3.82 47.68 25.74 0.43 0.00 0.02 0.45 0.05 131134 3.83 3.82 47.68 25.74 0.43 0.00 0.00 0.02 0.45 0.05 10229600 354105 68952100 192.74 1855.29 423.34 9.50 0.90 2.10 12.49 1.99 1	SCAB SUM	ā:	230442	228366	C02000	PE C91	1637.00	156.09	9.66	0.71	1.93	8.30	1.52	16152.07	55.27
131134 3083 97339 3.62 47334 9.50 0.90 2.10 12.49 1.99 16790.99 3 10229600 354105 68952100 192.74 1855.29 423.34 9.50 0.90 2.10 12.49 1.99 16790.99	131134 3083 97339 5.04 423.34 9.50 0.90 2.10 12.49 1.99 1 10229600 354105 68952100 192.74 1855.29 423.34 9.50		W W	761416	00407	1175/100		89 64	25 74	0.43	00.0	0.02	0.45	0.05	147.98	254.29
10229600 354105 68952100 192.74 1855.29 425.34 5.30 0.30	10229600 354105 68952100 192.74 1855.29 425.34 9.50 0.50 2.10 2.10		HIO	131134	3083	41339	70.0	00.74	1000	2 6	000	2 10	12 40	66 -	16790.99	3902.95
			SUM	10229600	354105	68952100	192.74	1833.29	473.34	7.30	2.0	•	ì	\ \ \		

Note:

Banning Area is included in SCAB, not in Coachella Valley

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle

HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck

OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

CO = 1431.68 NOx = 132.48 a10SCAB.pm a10BRDN.SUM SCAB R2202 : VOC = 126.18 D. Emfac Basic Lemfac Burden. vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

Run Date: 09/30/05 14:34:24

Season : Annual

YEAR 2020 - annualPLAN (20p.zip)
Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled **
Scen Year: 2020 -- Model Years: 1975 to 2020

NO E CHIEF	E CACA	ANTERIOR (Femissions in tone. VMT in 1000-milk	ions in tone.	VMT in 1000-mile	s, Fuel Consun	nption in 1000-gallons	-gallons)			Friday, Septembe	mber 30, 2005	2:37:36 PM	PM	Page (1)
SUB AREA		VEHICLE CITYAND LIMITATION OF THE STATE STARTS STARTS STARTS	VMT	STARTS	ROG	8	NOX	PM2.5ex	Tire W	Brake W	PM2.5sum	SOX	Gasoline	Diesel
								:	:	;	5	0.30	258 73	2507.59
(1100)00	1	735367	16467	4420086	11.03	53.34	57.43	25.	0.11 0	7.7	74.1		27.000	11.04
105(5CAB)	Ē	752337	10000	00000000	70.60	466.46	CP CP	3.79	0.43	1.14	5.35	C.83	4511.04	11.90
	L&M	5768144	193007	3364/000	20.04		12.46	PC 0	8	000	0.26	0.03	88.96	16.671
	HO	72318	1960	67027	1.90	537 58	113.31	5.23	0.55	1.25	7.03	1.21	9859.33	2699.48
	SUM	0728709	711430	40944000	06.30	00.400		}						
				*****	73.0	30 11	13.63	900	0.02	0.02	0.32	0.05	70.78	528.00
ORA(SCAB)	HDT	29601	3826	14/9185	4C.7	11.30	17.02	7.	910	0.42	1.74	0.31	3475.07	4.18
	LEM	2434533	72511	14914366	18.47	143.90	12.63	20.0		0	0.07	0.00	31.62	45.63
	H	30887	654	19469	0.52	3.88	3.47	8.5	3	3			77 6636	10 773
	SUM	2525020	76992	16413200	21.53	161.80	28.89	1.48	0.19	0.46	2.13	0.40	3377.40	10.776
	!		3	. 140002	2 72	16.17	19.75	0.39	0.03	0.04	0.46	0.11	99.43	892.77
RIV(SCAB)	HOL	/2183	6010	1137073	710	72 00	1,64	0.84	110	0.29	1.22	0.22	2253.71	2.58
	N N	1215283	40704	7442010	0.10	20.00	1 62	0.03	0.00	0.00	0.04	0.00	29.35	28.12
	H	91987	7/6	021500	5. 51	108 67	20.35	1.28	0.15	0.31	1.74	0.32	2382.49	923.46
	SOM	1319080	25942	2210020	14:13	0.90		Ì						
			7.10	1271671	215	11 04	14.56	0.26	0.02	0.01	0.32	0.0	59.39	635.17
SBD(SCAB)		20022	7014	1471011	61:30 00	88 99	88 5	0.54	90.0	0.20	0.81	0.16	1672.86	19.1
	N N	10/1949	74007	11043	9.0	09-	1 54	003	00.0	0.00	0.03	0.00	17.13	23.01
	E S	/0061	900	0,002907	10.45	70 58	21 98	0.84	0.11	0.23	1.17	0.23	1749.36	659.80
	NO.	114/390	270/2	0761601	CL:OI									
			00,00	.00000	10.01	97 60	104 53	2 13	0.22	0.18	2.52	0.52	488.32	4563.53
SCAB SUM	E	4701/4	30499	10040742	10.74	760 07	68.61	233	92.0	2.05	9.14	1.59	16913.29	20.36
	L&M	10489918	346390	041/9300	85.30 2.20	700.04	06.01	97.0	2 5	000	0.41	0.05	167.05	276.67
	HO	151428	3556	111782	3. 5.	71.31	70.07	0.38	500	20.0	5	20.0	17568 64	4860 55
	SUM	11067500	380446	74331800	107.29	882.64	193.52	96.93 33	0.98	57.7	17.07	7.10	17200.04	4000.72
										,				

Note:

Banning Area is included in SCAB, not in Coachella Valley

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle

HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck

OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

a20SCAB pm

a20BRDN.SUM

SCAB R2202 : VOC = 59.81 CO = 647.11 NOx = 56.19

D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

YEAR 2030- PLAN (30P.zip)

Run Date: 09/30/05 10:37:29

Season : Annual

Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2030 -- Model Years: 1985 to 2030

VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-miles, Fuel Consumption in 1000-gallons) 6.05 305.05 5676.96 193.94 581.07 1.15 49.67 631.90 0.72 0.72 34.01 1115.72 810.66 0.41 27.42 838.50 5365.86 74.16 1896.27 115.86 0446.57 3563.88 40.00 41.83 2803.24 119.85 3678.31 2641.55 1994.71 552.95 8147.89 0.12 0.07 0.09 0.18 0.00 0.28 0.94 0.03 1.31 5.72 2.73 2.73 5.74 0.30 1.82 0.06 2.17 0.04 0.04 0.04 0.04 0.36 0.92 0.04 1.31 0.02 0.45 0.47 0.02 1.34 1.34 0.00 0.00 0.02 0.06 0.19 0.13 0.00 0.59 0.00 0.03 0.09 0.13 4.07 6.21 5.33 5000 0.4 1.01 1.44 1.44 0.28 0.60 0.03 0.92 6.90 0.33 2.67 1.49 11.36 38.24 22.69 10.24 71.17 14.91 4.65 314.28 1.87 10.71 54.25 60.57 9.16 1.07 ႘ 3.30 6.77 0.19 10.24 228 11.90 0.29 14.49 16.36 78598 43635500 1691243 15351695 2254109 16356 15032 STARTS 6191405 37365501 22296 7065200 0879500 7397128 9104850 132282 30685100 3609005 1692695 1829447 2416 225985 7374 53472 5207 39148 44860 **TMV** 35609 61611 79461 VEHICLE 267269 6141182 96393 6504850 75164 1208648 1311980 204786 11993600 40310 2630330 97122 1409404 39914 28169 68914 2521110 546440 508469 [&M HDT L&M L&M OTH HDT L&M OTH SUM 百五 Ħ ORA(SCAB) SBD(SCAB) LOS(SCAB) RIV(SCAB) SCAB SUM **SUB AREA**

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others Banning Area is included in SCAB, not in Coachella Valley

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

P30SCAB.pm P30BRDN.SUM

SCAB R2202 : VOC = 36.81

NOx = 30.14CO = 367.26 Conformity Analysis SCAG D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov

YEAR 2010 - NBannual (10NB.zip) Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2010 -- Model Years: 1965 to 2010

Run Date: 10/11/05 15:05:35 Season : Annual

VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-m SUB AREA VEHICLE VMT STARTS LOS(SCAB) HDT 206209 14194 5023946	VEHICLI 206209	Emiss	ions in tone, V	MT in 1000-miles STARTS 5023946	Fuel Consum ROG	co	n 1000-gailons) NOX 1 135.67	PM2.5ex	Tire W 0.09	Brake W PM2	ober 11, 2005 PM2.5sum 2.26	SOx 0.25	- I () i	Page (1) Diesel
570550 192308 35181928 164681 1746 59929 16390 208248 40265800	19308 35181928 1 1746 59229 208248 40265800	35181928 35181928 59929 40265800			103.42 2.35 122.31	1062.88 27.00 1195.29	100.71 16.94 253.32	3.68 0.28 6.04	0.42 0.00 0.52	1.14 0.01 1.23	5.24 0.29 7.79	0.90 0.02 1.18	9739.84 79.97 10096.43	32.23 172.10 2224.83
50715 3451 1295665 1 2366251 71924 14660636 26894 568 16916 1 2443860 75945 15973200	3451 1295665 71924 14660636 568 16916 75945 15973200	1295665 14660636 16916 15973200		C) (1)	34.54 0.69 38.64	21.43 320.27 8.67 350.37	28.76 30.51 4.23 63.50	0.44 1.10 0.07 1.62	0.02 0.16 0.00 0.18	0.02 0.42 0.00 0.45	0.48 1.70 0.08 2.25	0.05 0.33 0.39 0.39	73.98 3533.04 28.45 3635.47	450.46 12.46 40.39 503.32
HDT 56528 4654 1359077 L&M 1056890 41283 6533097 1. OTH 23474 467 10916 SUM 1136890 46403 7903090 2	4654 1359077 41283 6533097 467 10916 46403 7903090	1359077 6533097 10916 7903090		7 7	4.12 16.25 0.48 20.84	26.51 181.34 7.28 215.12	42.10 17.06 2.61 61.78	0.55 0.72 0.04 1.32	0.02 0.10 0.00 0.12	0.03 0.24 0.27	0.61 1.05 0.06 1.72	0.08 0.20 0.27	88.64 2042.97 24.78 2156.38	640.00 7.56 22.85 670.40
4247 3211 987446 951616 31383 5887138 16085 301 9798 1010150 34894 6884390	3211 987446 31383 5887138 301 9798 34894 6884390	987446 5887138 9798 1 6884390			22.2	17.44 142.27 4.74 164.46	30.37 13.59 1.96 45.92	0.46 0.03 0.90	0.02 0.00 0.09	0.01 0.18 0.21	0.44 0.72 0.03	0.05	52.59 1534.50 14.78 1601.87	476.93 4.94 18.95 500.83
HDT 355899 25511 8666130 26 L&M 10080253 336896 62262795 168 OTH 131134 3083 97559 3 SUM 10567300 365489 71026500 199	25511 8666130 336896 62262795 3083 97559 365489 71026500	8666130 62262795 97559 71026500		26 168 199	8 8 8 8 8 8 8 8 8	170.78 1706.76 47.68 1925.24	236.89 161.88 25.74 424.52	3.48 5.96 0.43 9.88	0.18 0.75 0.00 0.92	0.15 2.00 0.02 2.17	3.80 8.70 0.45 12.96	0.42 1.58 0.05 2.05	491.84 16850.35 147.98 17490.16	3587.89 57.22 254.29 3899.38

Note:

Banning Area is included in SCAB, not in Coachella Valley

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle

HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck

OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

N10SCAB.pm

N10BRDN.SUM

SCAB R2202 : VOC = 131.36 CO = 1494.48 NOx = 137.42 PM10 = 7.77

Conformity Analysis SCAG D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov

YEAR 2020 - NBannual (20NB.zip)

Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2020 -- Model Years: 1975 to 2020

Run Date: 10/11/05 15:57:11 Season : Annual

VEHICI F ON	-ROAD EN	VEHICLE ON BOAD EMISSIONS (Emissions in tone, VMT in 1000-mil	ons in tone, V		es, Fuel Consum	uption in 1000	-gallons)		•	Tuesday, October 1	tober 11, 2005	5:06:09 PM	W	Page (1)
SUB AREA	*****	**************************************	**************************************	STARTS	ROG	00	NOX	PM2.5ex	Tire W	Brake W	PM2.5sum	SOx	Gasoline	Diesel
LOS(SCAB)	H	237043	16580	\$86958	11.28	54.45	56.15	1.26	0.11	0.11	1.49	0.30	268.09	2525.54 12.80
•	L&M OTH SUM	6171642 72318 6481000	206510 1960 225049	37713216 67052 43349900	53.68 1.96 66.91	509.25 12.77 576.48	45.84 13.45 115.43	5.81	0.00 0.58	0.01	0.26 7.72	0.03	88.96 10825.70	179.91 2718.27
ORA(SCAB)	HDT L&M	60323 2545718	3871 75824	1497110	2.59	12.21 154.60 3.88	12.82	0.28 1.25 0.06	0.02	0.02 0.45 0.00	0.33 1.86 0.07	0.06 0.36 0.00	73.03 3683.62 31.62	534.39 4.37 45.63
	NOS	30887 2636930	80350	17112300	22.51	170.69	29.52	1.59	0.19	0.48	2.26	0.42	3788.27	584.40
RIV(SCAB)	HDT 1.8M	70752	5750 48852	1656177 7859484	3.11	15.62 97.41	18.28 8.21	0.39	0.03	0.04	0.46	0.10	98.94 2493.18	2.72
	SUM	28616 1382690	572 55175	13318 9528980	0.35 13.29	2.95 115.99	1.97 28.45	0.03 1.41	0.00	0.00	0.04 1.89	0.00	29.33 2621.47	870.99
SBD(SCAB)	HDT Y.	54366	3980	1233856	2.12	10.75	13.57	0.27	0.02	0.01	0.32 0.86	0.06	57.35 1727.01	616.28
	OTH SUM	19607 19607 1175270	369 39904	11943 8000120	10.65	1.69	1.54 21.16	0.03	0.00	0.00	0.03	0.00	17.13	23.01 640.96
SCAB SUM	HOH V.S.	422484	30182	9956718	19.09	93.01	100.81	2.20	0.21	0.18	2.59	0.52	497.40	4516.38
	OTH	151428 11675900	3556 400478	111782 77991200	3.04	21.31 945.70	20.37 194.56	0.38 9.68	0.01 1.03	0.02	0.41 13.08	0.05 2.30	167.05 19036.91	276.67 4814.62

Banning Area is included in SCAB, not in Coachella Valley
Banning Area is included in SCAB, not in Coachella Valley
Banning Area is included in SCAB, not in Coachella Valley
BUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others
L&M = Passenger car + Light Duty Truck (1) & (2) + Medium Duty Truck + Heavy Heavy Duty Truck
HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck
OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home
N20SCAB.pm
N20BRDN.SUM
SCAB R2202 : VOC = 64.18 CO = 701.75 NOx = 60.13 PM10 = 8.98

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YEAR 2030 - NBannual (30NB.zip)

Run Date: 10/11/05 15:32:23

Season : Annual

Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2030 -- Model Years: 1985 to 2030

VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-miles, Fuel Consumption in 1000-gallons) 577.17 1.22 49.67 628.08 995.95 0.73 34.01 1030.69 727.83 0.42 27.42 755.67 305.05 193.94 3028.73 6.40 2830.79 5131.74 2049.78 40.00 3953.79 2961.97 41.83 67.49 1958.00 24.28 562.60 296.84 11265.54 115.86 11678.25 75.77 3838.01 122.49 Gasoline 0.33 1.07 0.03 1.42 0.07 0.36 0.00 0.44 0.12 0.27 0.00 0.40 0.07 0.19 0.00 0.27 SÖX PM2.5sum 1.35 6.60 0.23 8.18 0.30 1.97 0.06 2.34 0.50 1.68 0.04 2.23 0.33 0.97 0.04 1.34 Brake W 0.02 0.46 0.00 0.50 0.04 0.33 0.00 0.37 0.03 0.24 0.27 0.11 0.02 1.42 Tire W 0.03 0.12 0.48 0.00 0.62 0.02 0.00 0.20 0.04 0.13 0.17 PM2.5ex 0.41 1.22 0.03 1.68 0.26 0.03 0.95 4.82 0.21 6.14 0.25 1.32 0.05 1.64 36.30 24.68 10.24 71.24 13.38 9.79 3.44 14.37 67.82 8.35 7.31 2.67 18.34 XOX 9.59 93.27 2.76 9.77 44.53 1.07 55.36 496.10 40.53 292.05 9.16 341.73 105.62 14.77 66.26 1.87 82.92 ဗ 2.29 12.63 0.29 15.22 7.77 16.07 22296 17925200 16356 11028000 1519739 15032 9018390 6057990 39799565 78598 7483619 132282 11334389 1679917 2076749 72441032 8934934 15936100 18466 218031 2416 238912 4128 78733 802 83662 55496 764 63055 4675 39608 503 44786 34063 6794 1318430 68452 2664206 40310 1462764 39914 1592160 67483 1222779 28169 486925 204786 12582700 VEHICLE 6541212 96393 6899120 2772960 1890958 89481 HDT L&M OTH HDT L&M OTH SUM HDT V&M NOS HDT OTH SUM SUM SBD(SCAB) ORA(SCAB) LOS(SCAB) SCAB SUM RIV(SCAB) SUB AREA

Note:
Banning Area is included in SCAB, not in Coachella Valley
SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others

- RAM = December ces + Light Duty Truck(1) & (2) + Medium Duty Truck + Moto

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

N30SCAB.pm N30BRDN.SUM

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Total Population Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	9576322 2867240 1525315 1695031 758090 16421998
-Total Workers Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4078765 1383655 614719 676330 359204 7112673
-Total Employement Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4447345 1514576 515463 589369 337259 7404012
-Total Household Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	3135803 939712 503431 522640 244477 5346063
-Total Person Trips Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	32153636 10669848 5228154 5640028 2797439 56489106
-Total Person Trips by Trip type Home Base Work Home Base University Home Base School Home Base Other Other Base Other Work Base Other TOTAL	9090292 1861244 5245811 22239131 11974061 6078650 56489189
-Home To Work/University Mode Choice Drive Alone % Person Trips	8366038 76 392

% Person Trips

76.392

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1572766 14.361 527584 4.817 485066 4.429
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	9938802 9016660 1.1023
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	26990326 47.780 22848017 40.447 1219623 2.159 742246 1.314 4688894 8.301
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	49838343 34739205 1.4346
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	29585 1283152 211996 732781 2257514
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	21.2320 12.5133 13.4917 7.8935
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	49.7662 52.6685 30.3926 35.3838
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	48.8867 52.6027

Avg Arterial Speed	29.4061
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.6389 51.1901 29.1005 33.5780
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	343169768 27260191 370429958
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	9698491 620251 10318742
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	1476769 100845 1577614
-Air Quality Statistics: Emissions Tons of ROG By Air-Basin South Coast AB Ventura County	by Air Basin 350.540

Total Population	
Los Angeles County	10711323
Orange County Riverside County	3291738
San Bernardino County	20 45211 2032156
Ventura County	865187
TOTAL	18945615
-Total Workers	
Los Angeles County	4499020
Orange County	1551664
Riverside County	850510
San Bernardino County	825662
Ventura County	405114
TOTAL	8131970
-Total Employement	
Los Angeles County	5015790
Orange County Riverside County	1749993
San Bernardino County	715241
Ventura County	764667 381678
TOTAL	8627369
	002/003
-Total Household	
Los Angeles County	3402537
Orange County	1033974
Riverside County San Bernardino County	678936
Ventura County	610580
TOTAL	275366 6001393
	0001393
-Total Person Trips	
Los Angeles County	34474669
Orange County	11755866
Riverside County San Bernardino County	6664306
Ventura County	6473809
TOTAL	3096667 62465318
	02403310
-Total Person Trips by Trip type	
Home Base Work	10038697
Home Base University	2287694
Home Base School Home Base Other	5553078
Other Base Other	24562146
Work Base Other	13235601
TOTAL	6788180 62 46 5396
	02403330
-Home To Work/University Mode Choice	
Drive Alone	9067330
% Person Trips	73.561

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1808504 14.672 753044 6.109 697436 5.658
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	10875833 9810709 1.1086
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	29171346 46.700 24976623 39.985 1881195 3.012 761013 1.218 5675141 9.085
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	54147969 37671461 1.4374
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	66572 1917405 313155 1067561 3364693
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	20.9556 12.3295 13.4450 7.8983
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	50.2362 52.9353 30.5155 35.5352
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	49.2588 52.8414

Avg Arterial Speed	29.4124
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.5581 51.0685 28.9609 33.4181
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	369574810 28964031 398538840
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	10400258 660375 11060633
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	1550466 104735 1655201

-Air Quality Statistics: Emissions by Air Basin Tons of ROG By Air-Basin South Coast AB

-Total Population Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	11483177 3433722 2608023 2370524 929195 20824641
-Total Workers Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4867685 1632560 1079787 966212 438415 8984659
-Total Employement Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	5362879 1848112 942655 969385 424479 9547510
-Total Household Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	3762057 1064086 902812 749838 303602 6782395
-Total Person Trips Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	37397804 12270954 8516223 7726383 3347280 69258644
-Total Person Trips by Trip type Home Base Work Home Base University Home Base School Home Base Other Other Base Other Work Base Other TOTAL	10907792 2364345 6213956 27426698 14794165 7551799 69258755
-Home To Work/University Mode Choice Drive Alone % Person Trips	9750798 73.469

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1896798 14.292 874244 6.587 750187 5.652
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	11647595 10533654 1.1058
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	32357317 46.720 27550479 39.779 2171176 3.135 816423 1.179 6363249 9.188
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	59907796 41710811 1.4363
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	83877 2093890 487240 1163386 106480 3934873
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	20.7182 12.0654 13.2353 7.6746
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	49.7815 53.0731 30.2584 34.9990
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	48.7414 52.7577

Avg Arterial Speed	29.0992
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.5040 50.9569 28.6129 32.9496
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	398648845 34773476 433422321
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	11390303 797756 12188060
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	1756903 134777 1891680
-Air Quality Statistics: Emissions by Tons of ROG By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	Air Basin 119.000 6.200 2.120 3.840 2.150 133.31
Tons of CO By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	868.560 39.990 19.980 37.890 22.010 988.43
Tons of NOX By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	206.460 6.880 3.260 10.090 5.260 231.95
Tons of PM10 By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley	18.740 .790 .450 .840

	Coachella Valley	.550 21.37
Tons of	SOx By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	2.110 .090 .050 .100 .060 2.41
GASOLIN	In 1000 Gallons E South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	By Air-Basin 17118.230 903.700 486.440 727.320 526.300 19762
DIESEL	in 1000 Gallons By South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	Air-Basin 4860.560 128.210 68.710 246.860 131.660 5436



-Total Population Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	12196590 3552955 3110387 2686063 989771 22535766
-Total Workers Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	5210346 1701552 1280466 1097783 469998 9760145
-Total Employement Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	5656758 1921795 1174109 1175961 465497 10394120
-Total Household Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4118181 1098477 1124411 890967 332115 7564151
-Total Person Trips Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	40170427 12677725 10322321 8843668 3621615 75635757
-Total Person Trips by Trip type Home Base Work Home Base University Home Base School Home Base Other Other Base Other Work Base Other TOTAL	11643519 2440866 6873343 30100825 16280651 8296683 75635887
-Home To Work/University Mode Choice Drive Alone % Person Trips	10295251 73.098

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1947277 13.826 1049147 7.449 792582 5.627
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	12242526 11102494 1.1027
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	35302362 46.674 29946970 39.594 2535466 3.352 870265 1.151 6980695 9.229
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	65249331 45425978 1.4364
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	101100 2229148 641751 1334329 381441 4687769
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	20.7849 12.0435 13.2841 7.6567
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	49.6026 52.4633 29.8075 34.6119
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	48.5279 52.1935

Avg Arterial Speed	28.6304
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.5477 51.1098 28.0396 32.5494
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	431796436 40806707 472603144
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	12475358 940672 13416030
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	2012676 164719 2177395

-Air Quality Statistics: Emissions by Air Basin (1)
Tons of ROG By Air-Basin
South Coast AB

REPORT

DATE:

February 2, 2006

TO:

Energy and Environment Committee (EEC)

FROM:

Jessica Kirchner, Associate Regional Planner, (213)236-1983, kirchner@scag.ca.gov

SUBJECT:

Conformity Determination and PEIR Addendum for the Amendment to the 2004 Regional

Transportation Plan (RTP) and 2004 Regional Transportation Improvement Program

EXECUTIVE DIRECTOR'S APPROVAL:

RECOMMENDED ACTION:

Approve the conformity determination and PEIR Addendum for the 2004 RTP/RTIP Amendment.

(TCC is considering approval of the Draft Amendment).

SUMMARY:

The EEC released the Draft PEIR and conformity determination for public review and comment on December 1, 2005. The public comment period closed on January 6, 2006. A public hearing was held at SCAG on January 5, 2006. The Transportation Conformity Working Group discussed the item on October 25, 2005 and November 22, 2005. Additionally, the RTP/RTIP Amendment will be discussed at a meeting a meeting of the Regional Transportation Agencies Coalition (RTAC) on January 18, 2006.

BACKGROUND:

The Orange County Transportation Authority (OCTA) has requested that SCAG amend the 2004 RTP and 2004 RTIP to do the following:

- Replace the planned CenterLine light rail and Yorba Linda Metrolink Station projects with a combination of bus rapid transit, commuter rail, local shuttle, and carpool operation improvement projects, and
- Revise the scope of the SR-241/Foothill South toll road project.

The CenterLine and Yorba Linda amendments are requested to fulfill the TCM substitution process. Additionally, the CenterLine action is requested so that OCTA can redirect funds currently programmed for the CenterLine towards the replacement projects before such funds are lost due to the state's timely use provisions. The Foothill-South amendment is requested to facilitate action on a Record of Decision by the Federal Highway Administration.

SCAG received two written comments on the Draft Amendment and they are summarized below.



REPORT

Name, Organization, Address	Comments	SCAG Response
Michael Brady California Department of Transportation DOTP-ORIP Air Quality/Conformity Coordinator mike_brady@dot.ca.gov	The "improve Orange Line Metrolink service" item should be described in a little more detail. What's the delivery timeframe and has BNSF/Metrolink been consulted? Does Metrolink and/or BNSF have the capacity to deliver increased service in that timeframe, and what was assumed in terms of	The Metrolink portion of the TCM substitution entails a 50% improvement in headways for both peak and off-peak service on the IEOC line between San Bernardino and San Juan Capistrano, and on the 91 line between Riverside and Union Station. The project description on page 2 of the Amendment has been
	increased service in the conformity analysis?	updated to clarify this. All of the CenterLine substitution projects are assumed to be in place by 2010. OCTA is working closely with Metrolink to implement the TCM substitution (see Attachment E).
Dennis Wade Air Pollution Specialist California Air Resources Board Planning and Technical Support	The ratios to estimate the additional benefit of directing 20% of the vehicles to test only are: ROG 0.996, NOx 0.997. These are annual estimates for calendar year 2002 for the South Coast Air Basin.	SCAG has updated its calculation of NOx for I/M credit using the following: 1 – 0.997 = 0.003, based upon the information provided by the Air Resources Board. The updated numbers for year 2002 are reflected on page 15 of the
dwade@arb.ca.gov		Amendment. The revisions do not change either the conclusions of the analysis or the conformity determination.

FISCAL IMPACT:

Funds for the RTP and RTIP development are included in the FY 05/06 Overall Work Program.



FINAL

2004 REGIONAL TRANSPORTATION PLAN AMENDMENT

AND

2004 REGIONAL TRANSPORTATION IMPROVEMENT PROGRAM AMENDMENT

February 2, 2006



FINAL 2004 RTP AMENDMENT AND 2004 RTIP AMENDMENT

CONTENTS

ntroduction		1
Project Descrip	tions	2
Fiscal Impact		9
Conformity Find	lings	10
Addendum to th	ne 2004 RTP Program Environmental Impact Report (PEIR)	16
Public Review a	and Comment	28
Attachment A –	OCTA Requests for CenterLine and Yorba Linda Metrolink Station Substitution	29
Attachment B –	OCTA TCM Replacement Report	34
Attachment C –	OCTA Request for Foothill Transportation Corridor-South/SR-241 Amendment	59
Attachment D –	OCTA RTIP Amendment Request	61
Attachment E –	Metrolink Letter Regarding Service Expansion	65
LIST OF FIGUE	RES	
Figure 1 – Cent	terLine/Yorba Linda Metrolink Station and Substitution Projects – General	4
Figure 2 – Cent	terLine/Yorba Linda Metrolink Station and Substitution Projects – Detailed	5
Figure 3 – Foot	hill Transportation Corridor-South/SR-241 Alignment	7
Figure 4 - 2004	1 RTIP Amendment Project Listing Report	٩

INTRODUCTION

The Southern California Association of Governments (SCAG) is the designated Metropolitan Planning Organization (MPO) for six counties in Southern California, including Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. As the MPO, SCAG is required to develop and update the Regional Transportation Plan (RTP) and the Regional Transportation Improvement Program (RTIP). The RTP is a long-range plan that identifies multi-modal regional transportation needs and investments over the next 25 years. The RTIP is a short-range program that implements the long-range plan by identifying federal, state, and local funding sources and amounts for specific transportation projects and project phases.

SCAG adopted the current operating 2004 RTP on April 1, 2004 (resolution #04-451-2), and the current operating 2004 RTIP on September 2, 2004 (resolution #04-453-2). Both the RTP and RTIP were developed in a comprehensive, cooperative, and continuing process that involved a broad spectrum of transportation and related stakeholders, as required under the Transportation Equity Act for the 21st Century (TEA-21).

The Orange County Transportation Authority (OCTA) has requested that SCAG amend the 2004 RTP and 2004 RTIP to replace the planned CenterLine light rail project and Yorba Linda Metrolink Station with a combination of bus rapid transit, commuter rail, local shuttle, and carpool operational improvement projects (see Attachments A, B, D), and to revise the scope of the Foothill Transportation Corridor-South/SR-241 toll road project (see Attachments C, D). The CenterLine project is located within the cities of Santa Ana, Costa Mesa, and Irvine in central Orange County. The Yorba Linda Metrolink Station project is located in the city of Yorba Linda in northern Orange County. The Foothill-South project is located in the unincorporated portion of southern Orange County.

The purpose of this document is to identify the specific details of the 2004 RTP Amendment and 2004 RTIP Amendment and to ensure that the proposed changes are consistent with federal and state requirements, including the TEA-21 planning requirements and the Transportation Conformity Rule. All associated analyses for the amendment of the both the 2004 RTP and 2004 RTIP are incorporated into this document.

PROJECT DESCRIPTIONS

The 2004 RTP/RTIP Amendment addresses three projects currently included in the 2004 RTP and 2004 RTIP, all of which are in Orange County: CenterLine, Yorba Linda Metrolink Station, and Foothill Transportation Corridor-South/SR-241.

CenterLine and Yorba Linda Metrolink Station

CenterLine

The CenterLine is a Transportation Control Measure (TCM) included in the 2004 RTP and the 2004 RTIP (project ID ORA194) with a completion year of 2010. The project entails constructing and operating an 8-mile-long light rail transit line from the Santa Ana Transit Center/Metrolink-Amtrak Station to John Wayne Airport. The CenterLine is programmed in the 2004 RTIP for a total of \$1.06 billion in local, state, and federal funds between fiscal years 2004/2005 and 2009/2010.

In February 2005, as a response to anticipated shortfalls in federal funding for the project, the OCTA Board of Directors paused work on the CenterLine to assess options for replacing the project. Since the CenterLine is a TCM, it is subject to the TCM substitution process identified in the Air Quality Management Plan. For further discussion of the TCM substitution process, refer to the Conformity Finding section of this Amendment. In October 2005, the OCTA Board of Directors approved the replacement of the CenterLine project with four new projects (described below), and OCTA has requested that SCAG amend the 2004 RTP and 2004 RTIP accordingly. The CenterLine and substitution projects are depicted in Figures 1 and 2.

Yorba Linda Metrolink Station

The Yorba Linda Metrolink Station is a TCM included in the 2004 RTP and 2004 RTIP (project ID ORA981103) with a completion date of 2005. The project entails constructing a new Metrolink commuter rail station, including a 347-space park-and-ride lot, near Esperanza Rd. and New River St. in the city of Yorba Linda. The project is programmed in the 2004 RTIP for \$8.2 million in local, state, and federal funds between fiscal years 2004/2005 and 2008/2009. The Yorba Linda Metrolink Station is depicted in Figures 1 and 2.

The Yorba Linda City Council voted on March 16, 2004 to cancel this project, and OCTA has requested that SCAG amend the 2004 RTP and 2004 RTIP accordingly. The Yorba Linda Metrolink Station will share the same set of substitution projects with CenterLine described below.

TCM Substitution Projects

The 2004 RTP/RTIP Amendment deletes the CenterLine and Yorba Linda Metrolink Station in their entirety from the 2004 RTP and 2004 RTIP and adds four substitute TCMs in their place:

- Bus Rapid Transit: A 28-mile bus rapid transit line connecting the Brea Mall to the Irvine Transportation Center via State College Blvd. and Bristol St,
- Metrolink Service Expansion: Enhanced service (50% headway improvement) on the Inland Empire-Orange County line (San Bernardino to San Juan Capistrano) and 91 line (Riverside to Union Station),

- Irvine Business Center shuttle: CNG-fueled shuttle vehicles connecting John Wayne Airport to the Irvine Business Center, and
- Free 3+ HOV on the 91 Express Lanes: Free access to the SR-91 Express toll lanes will be provided to 3+ carpools, from SR-55 to the Orange County/Riverside County line.

Specifically, the Amendment deletes references to the CenterLine on page 84 and in Exhibit 4.5 of the 2004 RTP document. The Amendment further revises the 2004 RTP Technical Appendix I as follows:

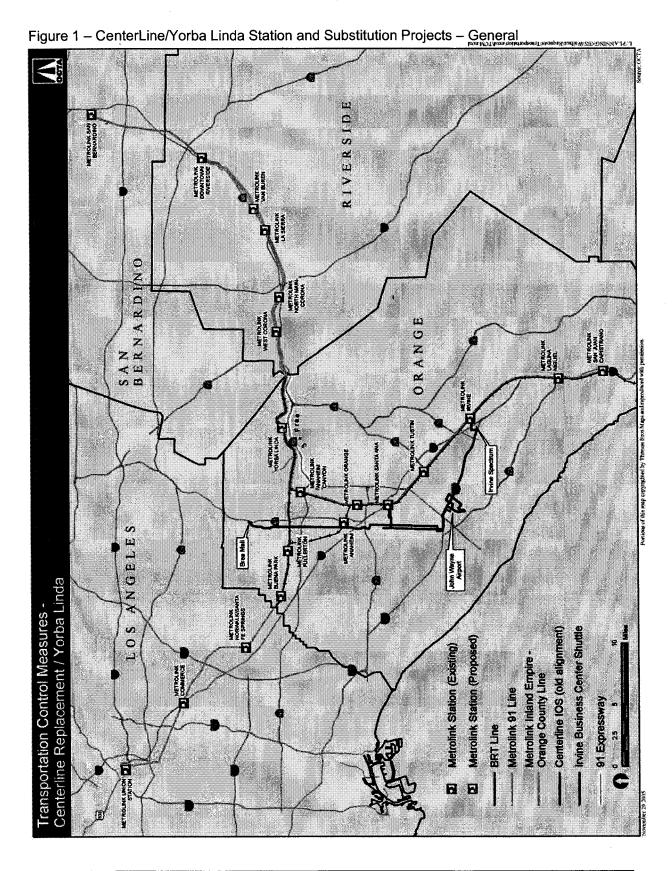
Edits to page I-66 (deletions are stricken):

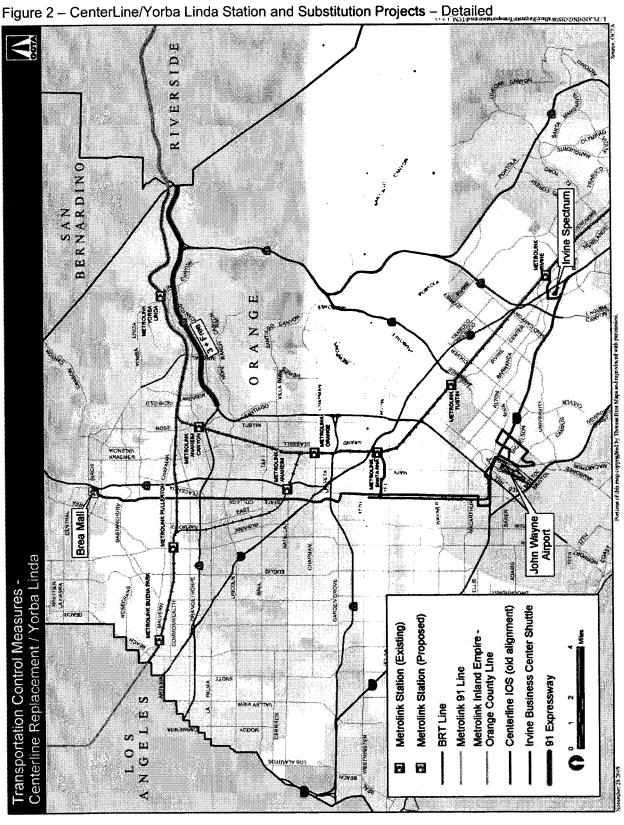
LEAD AGENCY	PROJECT ID	AIR BASIN	ROUTE	PMB	PMA	DESCRIPTION	COMPLETION DATE	CONFORMITY CATEGORY
YORBA LINDA	ORA981103	SCAB	9	9	θ	IN YORBA LINDA, CONSTRUCT COMMUTER RAIL STATION AND PARK AND RIDE (347 SPACES) NIEAR ESPERANZA RO AND NEW RIVER ST	20050630	TCM

Edits to page I-122 (deletions are stricken; additions are underlined):

LEAD AGENCY	PROJECT ID	AIR BASIN	ROUTE	PMB	PMA	DESCRIPTION	COMPLETION DATE	CONFORMITY CATEGORY
ORANGE COUNTY TRANS AUTHORITY (OCTA)	ORA194	SCAB	9	0	0	CENTRAL ORANGE COUNTY FIXED GUIDEWY (CENTERLINE) FOR CONSTRUCTION FROM JOHN WAYNE AIRPORT TO SANTA ANA TRANSPORTATION CENTER PLUS LINK TO SANTA ANA COLLEGE	20101231	∓CM
ORANGE COUNTY TRANS AUTHORITY (OCTA)	<u>ORA110501</u>	SCAB	<u>0</u>	<u>Q</u>	<u>0</u>	BUS RAPID TRANSIT - 28MI FIXED BRT FRM BREA MALL TO IRVINE TRANS CNTR. INCLUDES STRUCTURES, ROLLING STOCK, AND FEEDER SVC & IRVINE BUSINESS CTR (IBC) SHUTTLE - CNG SHUTTLES FROM JOHN WAYNE AIRPORT TO IBC	2010	TCM
ORANGE COUNTY TRANS AUTHORITY (OCTA)	04AMEND1	<u>SCAB</u>	<u>0</u>	<u>o</u>	<u>o</u>	METROLINK SERVICE EXPANSION - ENHANCED SERVICE ON INLAND EMPIRE- ORANGE COUNTY LINE AND 91 LINE (OPERATIONAL IMPROVEMENT)	<u>2010</u>	<u>TCM</u>
ORANGE COUNTY TRANS AUTHORITY (OCTA)	04AMEND2	<u>SCAB</u>	<u>91</u>	<u>0</u>	<u>0</u>	FREE 3+ HOV ON 91 EXPRESS LANES FROM SR-55 TO OR/RIV COUNTY LINE (OPERATIONAL IMPROVEMENT)	<u>2010</u>	TCM

The Amendment revises the 2004 RTIP as depicted in Attachment D and in Figure 4.







Foothill Transportation Corridor-South/SR-241

The Foothill Transportation Corridor-South/SR-241 project is included in the 2004 RTP and 2004 RTIP (project ID ORA052) with a completion date of 2015. The project entails extending the existing Foothill Transportation Corridor/SR-241 from its current terminus at Oso Pkwy. in Rancho Santa Margarita south to the Interstate 5 freeway near San Clemente. The project as originally described would construct a total of four toll lanes in each direction by 2015. The Foothill-South project is programmed in the 2004 RTIP for a total of \$478 million in local private funds through fiscal year 2005/2006. The project is depicted in Figure 3.

As a result of further analysis on the Foothill-South project, the Transportation Corridor Agencies (TCA) and OCTA have determined that the project scope should be scaled back from its original buildout description. The 2004 RTP/RTIP Amendment revises the scope of the Foothill-South project by reducing the total number of lanes to three toll lanes in each direction and by delaying the project completion to 2020. The initial phase by 2010 is not affected by this Amendment.

Specifically, the Amendment revises the 2004 RTP Technical Appendix I as follows:

Edits to page I-116 (deletions are stricken; additions are underlined):

LEAD AGENCY	PROJECT ID	AIR BASIN	ROUTE	PMB	PMA	DESCRIPTION	COMPLETION DATE	CONFORMITY CATEGORY
TCA	ORA052	SCAB	241	9	15.9	(FTC-S) TOLL RD (I-5 TO OSO PKWY) (15MI) 2 MF EA. DIR BY 2006; AND 2 ADDITIONAL MIF EA. DIR. PLS CLMBNG & AUX LANES AS REQ BY 2015 PER SCAG/TCA MOU 4/05/01.	2006 (2+2) and 2015 (4+4)	TCM
TCA	ORA052	SCAB	241	0	15.9	(FTC-S) TOLL RD (I-5 TO OSO PKWY) (15MI) 2 MF EA. DIR BY 2010; AND 1 ADDITIONAL M/F EA. DIR. PLS CLMBNG & AUX LANES AS REQ BY 2020 PER SCAG/TCA MOU 4/05/01.	2010 (2+2) and 2020 (3+3)	TCM

The Amendment revises the 2004 RTIP as depicted in Attachment D and in Figure 4.

¹ In the 2004 RTP the project is described as constructing two toll lanes in each direction by 2006 and an additional two toll lanes by 2015, for a total of four lanes each direction. Subsequently, the 2004 RTIP revised the project description to two toll lanes in each direction by 2010 and an additional two toll lanes by 2015.



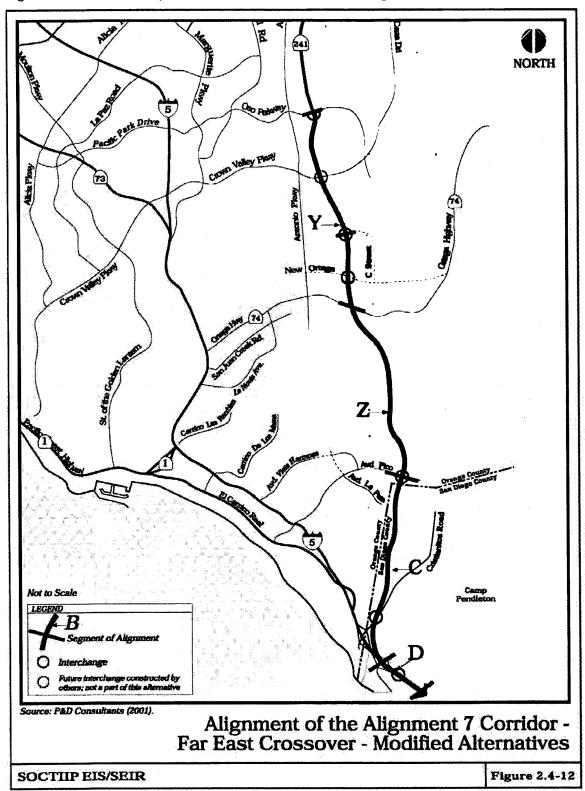


Figure 3 – Foothill Transportation Corridor-South/SR-241 Alignment



Figure 4 – 2004 RTIP Amendment Project Listing Report

	SOUTHERN C	SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS 2004 Federal TIP (FY 2004/2005 - 2008/2010) PROJECT USTING REPORT	DRNIA ASSOCIATION O Jensi TIP (FY 2004/2005 · 20 PROJECT LISTING REPORT	N OF GA - 2009/201 ORT	OVERNMEI 10)	S E												
		80	County: ORANGE	÷														
2004 REGIONAL TRANSPORTATION IMPROVEMENT PROGRAM	INSPORTATION	IMPROVEMEN	IT PROGRAM			SCAG	Approved.	SCAG Approved Amendments	ار			Local Highwa	y Projects.	State Highwa	Local Highway Projects, State Highway Projects, Transit Projects	ansit Project		Cost in Thousands
Lead Agency	Project ID	Air Basin	Model No		Program Code	RTE	RTE Begin		System	Conformity Category	y Catagory				Element	t Amendment	iment	
TCA	ORAD52	SCAB	2042	CAN67	187	241	0.0	15.9	s	Σ					3	_	18	
	(FTC-S) (I-S T)	(FTC-S) (+5 TO OSO PKWY) (15MI) 2 MF		JIR BY 201	10; AND 1 ADI	DITIONAL M	F EA DIR	PLSCLMB	NG & AUX	ANESASR	EO 8Y 202	EA DIR BY 2010, AND 1 ADDITIONAL WF EA. DIR, PLS CLMBNG & AUX LANES AS REQ BY 2020 PER SCAGITCA MOU 4/05/01.	CA MOU 4	05/01				
	Year	Firm	2	RIM	Cons	Total		Prior	2004/2	2002	12006 20	2004/2005 2005/2006 2006/2007 2007/2008 2008/2009 2009/2010	007/2008	2008/200	9 2009/20		Total	Total Grand Total
	9002	M	5.000	٥	٥	5,00												
	2006/2007	PVT		36,000	0	58,000												
	2007/2008		10,000	0		90,000												
	2008/2009	Z	0	0	_	00,00												
	2009/2010	ρV	0	0	1	00,00											1	
			36,000	35,000	280,000 3	350,000												
ORANGE COUNTY	ORA110501	SCAB		BUN93	183	0	0.0	00	<u></u>	TÇM					2		18	
IRANS AUTHORITY (OCTA)	BUS RAPID T	BUS RAPID TRANIST - 26MI FIXED BRT		BREA MA	LL TO IRVINE	TRANS CN	R. INCLU	DES STRUC	TURES, R	ALING STO	CK AND F	FRA BREA MALL TO IRVINE TRANS CHTR. INCLUDES STRUCTURES, ROLLING STOCK, AND FEEDER SYC & IBC SHUTTLE, CNO SHUTLES FROM JIMA TO IBC.	BC SHUT	LE CNG S	HUTTLES FR	OM JWA TO	18 0	
	Year	Fund	5	RAW	Cons	Total		Prior	200472	005 2005	72006	2004/2005 2005/2006 2006/2007 2007/2009 2008/2009 2009/2010	902/2008	2008/200	2009/20		Total	Grand Total
	2008/2009	STP-RIP	0 (۰ ،		41,670												
	01078007	SIPAIL	9	0	l	49,200				-	***************************************						***************************************	
***************************************			l	1		***************************************				***************************************								
	Grand Totals:		35,000	35,000	329,200	389,200												

FISCAL IMPACT

The 2004 RTP/RTIP Amendment includes the deletion of the CenterLine light rail project and Yorba Linda Metrolink Station project, the addition of replacement TCM projects, and scope changes to the Foothill-South toll road project. The amendment does not adversely impact the financial constraint of either the 2004 RTP or the 2004 RTIP. Both the plan and program remain financially constrained after the project deletions, additions, and scope changes described in this report. The fiscal impacts of the amendment are summarized below.

CenterLine and Yorba Linda Metrolink Station TCM Substitution

The 8-mile CenterLine light rail project has a total cost of \$1.06 billion, while the Yorba Linda Metrolink Station project is programmed at \$8.2 million. The projects that would replace the CenterLine and Yorba Linda Metrolink Station have a total cost of only \$246.2 million, as follows:

Bus Rapid Transit: \$36.9 million

• Metrolink Service Expansion: \$197 million

• Irvine Business Center Shuttle: \$12.3 million

• Free 3+ HOV on 91 Express Lanes: operational improvement; no capital cost required

Foothill-South Toll-Road Project Scope Change

The Foothill-South project budget consists of private funding. Initially, costs totaling \$478 million and offsetting toll revenues were included in the 2004 RTP baseline financial plan and the 2004 RTIP. The Transportation Corridor Agency (TCA) toll revenues were forecasted to grow at a conservative rate—pledged to secure the issuance of revenue bonds.

Recent toll revenue forecasts reflect more current conditions showing a higher growth rate. Further, updated financial assumptions include revenues generated from development impact fees and interest income.

With project scope changes, the revised project cost estimate totals \$550 million, and is broken down as follows:

- Initial phase by 2010: \$350 million engineering, right-of-way, and construction
- Buildout phase 2011-2020: \$200 million construction

Both the 2004 RTP and 2004 RTIP remain financially constrained as updated revenues are sufficient to offset the revised project cost.

CONFORMITY FINDINGS

Federal Requirements

Federal and state regulations require that a transportation conformity process must be undertaken by SCAG as the Metropolitan Planning Organization (MPO) of the region prior to the amendment's approval and conformity finding by the Regional Council. This includes an interagency consultation, release of the draft document for a 30-day public review and comment period, SCAG's responses on the written comments, and a public hearing at the Regional Council meeting prior to the final action on the amendment.

SCAG's Regional Council will undertake action first on the 2004 RTP Amendment and follow with action on the 2004 RTIP Amendment. The amendments will then be submitted to the state (for the RTIP Amendment's funding approval) and to the federal agencies for final approval (of financial constraint and conformity determination).

Sections 93.119(e) and 93.122(g) are the relevant parts of the Transportation Conformity rule for these amendments.

Conformity Findings

SCAG has completed its analysis of the proposed changes to the 2004 RTP and 2004 RTIP. SCAG's findings for the approval of these amendments are as follows:

Overall

Statement of Fact: Inclusion of these amendments in the 2004 RTP would not change any other policies, programs and projects which were previously approved by the federal agencies on June 7, 2004.

Statement of Fact: Inclusion of these amendments in the 2004 RTIP would not change any other projects which were previously approved by the state and federal agencies on October 4, 2004.

Finding: SCAG has determined that the 2004 RTP Amendment and the 2004 RTIP Amendment are consistent with all federal and state requirements and comply with the federal conformity regulations.

Regional Emissions Analysis - South Coast Air Basin (SCAB)

Finding: The 2004 RTP Amendment and 2004 RTIP Amendment's regional emissions for Ozone precursors (NOx, ROG/VOC) are consistent with all applicable emissions budgets for all milestone, attainment, and planning horizon years (2003 SIP)

Finding: The 2004 RTP Amendment and 2004 RTIP Amendment's regional emissions for CO are consistent with all applicable emissions budgets for all milestone, attainment, and planning horizon years (2003 SIP).

Finding: The 2004 RTP Amendment and 2004 RTIP Amendment's regional emissions for NO2 are consistent with all applicable emissions budgets for all milestone, attainment, and planning horizon years (2003 SIP).

Finding: The 2004 RTP Amendment and 2004 RTIP Amendment's regional emissions for PM10 (particulate matter less than 10 microns in size) precursors are consistent with all applicable emissions budgets for all milestone, attainment, and planning horizon years (2003 SIP).

Finding: The 2004 RTP Amendment and 2004 RTIP Amendment's regional emissions for direct PM2.5 and NOx are less than the baseline year (2002) for the 24-hour and the annual standard in the SCAB.

Timely Implementation of TCMs

The 2004 RTP/RTIP Amendment includes the substitution of two TCM projects, the CenterLine and the Yorba Linda Station (the SR-241 has a TCM component that will not be affected by the proposed changes). OCTA plans to replace these two existing TCMs (CenterLine and Yorba Linda Station) with new TCM projects. Replacement of these projects must follow the substitution protocol specified in the federally-approved Air Quality Management Plan/State Implementation Plan (AQMP/SIP).

Transportation Control Measures are contained in Appendix IV-C of the AQMP/SIP. The TCM substitution process is also spelled out in this appendix to the 1994, 1997 and 2003 AQMPs. Currently, the only federally approved process is in the 1994 AQMP/SIP.

The AQMP specifies procedures for replacing individual projects such as CenterLine and the Yorba Linda Station. This process includes:

- The CTCs and/or project sponsors shall notify SCAG when a TCM project cannot be delivered or will be significantly delayed.
- SCAG, CTC or project sponsor can propose a substitute measure.
- Prior to adopting an individual TCM substitution, the measure must have been subject to interagency consultation (i.e., the Transportation Conformity Working Group), public review and comment period and emissions analysis.
- The replacement measure must be subject to the SCAG Regional Council review and adoption.
- Upon adoption by the Regional Council, the new measure will replace the previous measure and will be incorporated into the RTIP through an administrative amendment.
- Adoption by SCAG's Regional Council will rescind the previous TCM and apply the new measure.

The proposed replacement projects must also meet specific criteria:

- The substitution of an individual measure must provide equivalent or greater emissions reductions than the measure being replaced in the AQMP/SIP.
- The substituted measure should preferably be located in the same geographic area and serve the same demographic subpopulation as the TCM it is replacing.
- A substitute measure must be fully funded and implemented in the time frame established for the measure contained in the SIP.

- The substitute measure must be fully implemented within two years of the implementation date of the original measure in order to meet the test for a finding of timely implementation.
- There must be evidence of adequate authority under state or local law to implement and enforce the measures.
- Commitments to implement the substitute measures must be made by the agency with the authority for implementation.
- The analysis of replacement measures must be consistent with the methodology used for evaluating measures in the Air Plan.
- Where emissions models and/or transportation models have changed since those used for purposes of evaluating measures in the attainment plan, both the previous TCM and the new TCM shall be evaluated using the latest planning assumptions and modeling techniques in order to demonstrate consistency with the current Air Plan.

Finding: SCAG has followed the federally approved process for TCM substitution (see Attachment B). Substitution of these projects does not change funding and timely implementation of TCM projects that are not in this amendment. With approval of this amendment, all SCAB TCM projects in the federally approved conforming 2004 RTP and 2004 RTIP are given funding priority and are on schedule for implementation.

Fiscal Constraint Analysis

Finding: All projects listed in the 2004 RTP and 2004 RTIP (including the proposed amendments) are financially constrained for all fiscal years. Fiscal constraint is analyzed in the Fiscal Impact section of this report.

Interagency Consultation and Public Involvement Analysis

Finding: SCAG has consulted with the respective transportation and air quality planning agencies. The proposed substitution of the CenterLine and Yorba Linda Station was discussed at the Transportation Conformity Working Group (which includes representatives from the respective air quality and transportation planning agencies) on three occasions (September 22, 2005, October 25, 2005, and November 22, 2005). In addition, the Amendment to the 2004 RTP/RTIP underwent the required consultation and public participation process. A 30 day public comment period announcement was posted on the SCAG website on Thursday, December 1, 2005. The comments received and SCAG's responses are summarized in the Public Review and Comment section of this report.

Regional Emissions Analysis - South Coast Air Basin (SCAB)

The South Coast Air Basin (SCAB) covers the urbanized portions of Los Angeles, Orange, Riverside, and San Bernardino counties, and is within the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The proposed projects are located within the SCAB; emissions changes in other air basins due to the proposed projects are negligible and therefore are not included in this summary report.

OZONE - SUMMER (8HR)

ROG	YR 2005	YR 2008	YR 2010	YR 2020	YR 2030
Amended 2004 RTP/RTIP BUDGET	258.467 263.000	212.754 216.000	151.290 155.000	107.240 155.000	73.177 155.000
<u>NOx</u>	YR 2005	YR 2008	YR 2010	YR 2020	YR 2030

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than budget

CARBON MONOXIDE (CO) - WINTER

<u>co</u>	YR 2005	YR 2010	YR 2020	YR 2030
Amended 2004 RTP/RTIP BUDGET	2,597.739	1,809.416	859.798	530.093
	3,361.000	3,361.000	3,361.000	3,361.000

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than budget

NITROGEN DIOXIDE (NO2) - WINTER

NOx	YR 2005	YR 2010	YR 2020	YR 2030
Amended 2004 RTP/RTIP BUDGET	613.664	448.797	205.622	133.010
	686.000	686.000	686.000	686.000

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than budget

PARTICULATE MATTER LESS THAN 10 MICRONS (PM10) - ANNUAL AVERAGE

	YR 2006	YR 2010	YR 2020	YR 2030
ROG			 	
Amended 2004 RTP/RTIP	245.350	189.004	106.453	72.524
BUDGET	251.000	251.000	251.000	251.000
NOx				
Amended 2004 RTP/RTIP	534.144	417.986	192.743	125.748
BUDGET	549.000	549.000	549.000	549.000
PM10				
Amended 2004 RTP/RTIP	165.927	163.365	161.520	163.913
BUDGET	166.000	166.000	166.000	166.000

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than budget

DIRECT PM2.5 EMISSIONS - 24-Hour

	YR 2002	YR 2010	YR 2020	YR 2030
Amended 2004 RTP/RTIP				
Exhaust	10.48	9.49	8.83	9.20
Tire Wear	0.83	0.90	0.98	1.08
Brake Wear	1.97	2.10	2.25	2.44
Total PM2.5 Exhaust	13.27	12.49	12.06	12.72
Base Year Emissions	13.27	13.27	13.27	13.27
Difference from Base Year	0.00	-0.78	-1.21	-0.55

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than base year

DIRECT PM2.5 EMISSIONS - Annual

	YR 2002	YR 2010	YR 2020	YR 2030
Amended 2004 RTP/RTIP				
Exhaust	3,825	3,464	3,223	3,358
Tire Wear	303	329	358	394
Brake Wear	719	767	821	891
Total PM2.5 Exhaust	4,844	4,559	4,402	4,643
Base Year Emissions	4,844	4,844	4,844	4,844
Difference from Base Year	0.00	-285	-442	-201

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than base year



OXIDES OF NITROGEN (NOx) - 24-Hour

	YR 2002	YR 2010	YR 2020	YR 2030
Amended 2004 RTP/RTIP	715.34	417.99	192.74	125.75
Base Year Emissions	715.34	715.34	715.34	715.34
Difference from Base Year	0.00	-297.35	-522.60	-589.59

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than base year

OXIDES OF NITROGEN (NOx) - Annual

	YR 2002	YR 2010	YR 2020	YR 2030
Amended 2004 RTP/RTIP	261,099	152,565	70,351	45,898
Base Year Emissions	261,099	261,099	261,099	261,099
Difference from Base Year	0	-108,534	-190,748	-215,201

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than base year

ADDENDUM TO THE 2004 RTP PROGRAM ENVIRONMENTAL IMPACT REPORT (PEIR)

<u>Introduction</u>

This document is an Addendum to the Final Program Environmental Impact Report (PEIR) to the 2004 Regional Transportation Plan (RTP or "Plan"), prepared and certified by the Southern California Association of Governments (SCAG) in April 2004. This Addendum to the PEIR has been prepared to address the following modifications to the 2004 RTP, requested by the Orange County Transportation Authority (OCTA):

- Delete the planned CenterLine Light Rail project and proposed Yorba Linda Metrolink station project (which are both Transportation Control Measures or TCMs) and replace with a combination of bus rapid transit, commuter rail, local shuttle, and carpool operational improvement projects; and,
- Reduce the size/capacity of the Foothill Transportation Corridor-South (SR-241) toll road project.

As the Lead Agency under the California Environmental Quality Act (CEQA) (Pub. Res. Code Section 21000 et seq.) SCAG prepared a Final PEIR (SCH No. 2003061075) to evaluate the potential environmental impacts associated with implementation of the Plan. The Plan is a long-range program that addresses the transportation needs for the six-County SCAG region through 2030. Although the Plan has a long-term time horizon under which projects are planned and proposed to be implemented, federal and state mandates ensure that the Plan is both flexible and responsive in the near term. Therefore, the Plan is regarded as both a long-term regional transportation blueprint and as a dynamic planning tool subject to ongoing refinement and modification.

The Plan includes both specific projects and strategies that address transportation and urban form. The purpose of the PEIR was to identify the potentially significant environmental impacts associated with the implementation of the projects, programs, and policies included in the Plan. The PEIR served as the informational document to inform decision-makers, agencies and the public of the potential environmental consequences of approving the 2004 RTP.

The 2004 RTP PEIR, focused on broad policy goals, alternatives and program-wide mitigation measures (*CEQA Guidelines* Section 15168(b)(4)).² As such, the PEIR is considered a first tier document that serves as a regional-scale environmental analysis and planning tool that can be used to support subsequent, site-specific project-level CEQA analyses.

Section 15152 of the *CEQA Guidelines* indicates that subsequent environmental analyses for separate, but related, future projects may tier off the analysis contained in the PEIR. The *CEQA Guidelines* do not require a Program EIR to specifically list all subsequent activities that may be within its scope. If site-specific EIRs or negative declarations will subsequently be prepared for specific projects broadly identified within a Program EIR, then site-specific analysis can be deferred until the project level environmental document is prepared (Sections 15168, 15152) provided deferral does not prevent adequate identification of significant effects of the planning approval at hand.

² Unless otherwise indicated, all citations by section number are to the *CEQA Guidelines* (Cal. Administrative Code, tit. 14, Section 15000 et seq.)



Basis for Addendum

When an EIR has been certified and the project is modified or otherwise changed after certification, then additional CEQA review may be necessary. The key considerations in determining the need for, and appropriate type of additional CEQA review are outlined in Section 21166 of the Public Resources Code (CEQA) and CEQA Guidelines Sections 15162, 15163, and 15164.

Section 21166 of CEQA specifically provides that a Subsequent or Supplemental EIR is not required unless the following occurs:

- (1) Substantial changes are proposed in the project which will require major revisions of the EIR.
- (2) Substantial changes occur with respect to the circumstances under which the project is being undertaken which will require major revisions in the EIR.
- (3) New information, which was not known and could not have been known at the time the EIR was certified as complete, becomes available.

An Addendum may be prepared by the Lead Agency that prepared the original EIR if some changes or additions are necessary, but none of the conditions have occurred requiring preparation of a Subsequent EIR (Section 15164(a)). An Addendum must include a brief explanation of the agency's decision not to prepare a Subsequent EIR and be supported by substantial evidence in the record as a whole (Section 15164(e)). The Addendum to the EIR need not be circulated for public review but it may be included in or attached to the Final EIR (Section 15164(c)). The decision-making body must consider the Addendum to the EIR prior to making a decision on the project (15164(d)).

For the reasons set forth in this Addendum, SCAG staff has determined that an Addendum to the 2004 PEIR is the appropriate CEQA document because the proposed changes to the Plan do not meet the following conditions of Section 15162(a) for preparation of a Subsequent EIR:

- (1) Substantial changes are proposed in the project which will require major revisions in the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.
- (2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.
- (3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence, at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:
 - a. The project will have one or more significant effects not discussed in the previous EIR:
 - b. Significant effects previously examined will be substantially more sever than shown in the previous EIR;
 - c. Mitigation measures or alternative previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or



d. Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.³

Purpose

The CenterLine and Yorba Linda amendments are requested to fulfill the TCM substitution process. Analysis of the TCM substitution process is included in the Conformity Findings Section within this document. Additionally, the CenterLine action is requested so that OCTA can redirect funds currently programmed for the CenterLine towards the replacement projects before such funds are lost due to the state's timely use provisions (AB1012 and annual obligation authority provisions). The Foothill-South amendment is requested to facilitate action on the project's environmental document by the Federal Highway Administration.

The purpose of this Addendum to the 2004 PEIR is to address the following specific modifications to the 2004 RTP which include removing the following two previously proposed projects:

CenterLine (project ID ORA164) - The CenterLine project in the 2004 RTP and RTIP was proposed as an eight mile portion of the original 18-mile light rail line from John Wayne Airport to the Santa Ana Transit Center. The CenterLine project alignment is shown in Figures 1 and 2.

Yorba Linda Metrolink Station (project ID ORA981103) - The Yorba Linda Station project would have consisted of the construction of a new rail station, including 347 parking spaces for station use. The Yorba Linda City Council voted on March 16, 2004 to cancel this project. Therefore, OCTA is seeking to replace this project before formally removing it from the RTP and RTIP. The Yorba Linda Station is currently programmed as a TCM and was modeled at the regional level in the 2004 RTP and PEIR.

The CenterLine Light Rail and Yorba Linda Metrolink Station projects will be deleted from the 2004 RTP and replaced with the operational improvement projects described below:

Bus Rapid Transit (BRT) – This project would provide a 28-mile BRT line extending from Brea Mall to Irvine Transportation Center. This line follows portions of the original CenterLine alignment, and builds on the existing BRT network in Orange County. This project is consistent with the 2004 RTP Bus Rapid Transit element, and enhances the BRT network being created with six new BRT projects listed in RTP Table 4.10. The RTP calls for "building on the success of existing BRT lines" with an emphasis on connecting major activity centers and creating multi-modal systems. The 28-mile line is consistent with these goals and would not be expected to result in any new construction.

Metrolink Service Expansion – This project would consist of enhanced service on the Orange Inland Empire – Orange County line and 91 lines. It is consistent with the RTP's Metrolink Expansion component (p. 107) and provides connectivity with the BRT routes

³While the proposed changes to the RTP may represent "New information of substantial importance..." as stated in 15162(a)(3), these changes to the project will not result in one or more significant effects not discussed in the previous EIR, nor result in impacts that are substantially more severe than shown in the previous EIR. No changes to the mitigation measures contained in the 2004 PEIR are proposed.

to create a multi-modal network as encouraged by the RTP's BRT element. Implementation of this element of the RTP would not be expected to involve any new construction.

Irvine Business Center Shuttle – CNG fueled shuttle vehicles would connect John Wayne airport to Irvine Business Center, one of the County's major employment concentrations. Implementation of this element of the RTP would not involve any new construction.

Free 3+ HOV on the 91 Express Lanes – Free access to the 91 Express toll lanes would be provided to 3+ carpools, from SR 55 to the Orange County/Riverside County line. These changes are proposed operational improvements and would not involve any new construction.

One additional modification to the RTP is also proposed and is described below:

The Foothill Transportation Corridor- South/SR-241 project was included in the 2004 RTP and 2004 RTIP. The project would include extending the existing Foothill Transportation Corridor/SR241 from its current terminus at Oso Parkway in Rancho Santa Margarita south to the Interstate 5 (I-5) freeway near San Clemente. The project included in the 2004 RTP would have included the construction of four toll lanes in each direction to be completed by 2015. The proposed 2004 RTP Amendment revises the scope of the project to include a total of three toll lanes in each direction to be completed by 2020. The net effect of this change will be to reduce the proposed toll road footprint and related potential environmental impacts of this RTP element.

The 2004 RTP includes hundreds of specific projects, and thus, these three specific projects are a relatively minor modification to the entire Plan. The replacement of the CenterLine and Yorba Linda Station projects with the proposed operational improvement projects and the reduced size of the proposed SR-241 alignment are refinements to the 2004 RTP based on a continuous need to improve and integrate transportation and land use planning in the region. None of the operational improvement replacement projects are expected to result in new construction. Additionally, the refined SR-241 project would result in a reduced construction footprint with a commensurate reduction in the scope of potential environmental impacts. Finally, each of these proposed RTP elements will be fully assessed at a project-level in accordance with CEQA, NEPA and all other applicable regulations by the implementing agencies.

Although the proposed replacement projects for the CenterLine and Yorba Linda projects were not detailed in the 2004 RTP PEIR, these projects are consistent with the scope, goals and policies contained in the 2004 RTP and evaluated in the 2004 PEIR. The PEIR broadly discussed potential significant impacts at the programmatic level based on conceptual project design and broadly defined transportation corridors. An evaluation of general corridors, proposed alignments and programs is inclusive and adequate for purposes of a programmatic level environmental assessment.

SCAG has assessed these additional projects at the programmatic level, and finds that the proposed replacement projects and the reduction in the size of SR-241 are consistent with the analysis, mitigation measures and Findings of Fact contained in the 2004 PEIR. Further SCAG finds that these projects to not significantly affect the comparison of alternatives or the potential significant impacts previously disclosed in the 2004 PEIR.

Analysis of Impacts

Land Use

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project – The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

Although the operational improvements proposed are not anticipated to result in direct construction impacts, it is possible that site specific impacts could occur at the project level. These may include impacts to sensitive receptors, open space loss and agricultural land loss or disturbance. The 2004 PEIR concluded that projects such as the CenterLine and Yorba Linda Station and proposed replacement projects could cause significant unavoidable impacts. However, the analysis in the 2004 PEIR (p. 3.1-1- 3.1-20) adequately addressed impacts that could result from the proposed replacement projects at the program level. The potential environmental impacts from these replacement projects would be less than or equal to the size, magnitude and nature of the deleted projects. Therefore, incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 – The SR 241 was included in the RTP as a four lane toll road and was evaluated at the programmatic level. The proposed changes would reduce the project footprint from four to three lanes in each direction. As a result, the potential area of environmental impacts also decreases relative to what was evaluated in the 2004 PEIR.

The 2004 PEIR assessed potential impacts of highway projects on sensitive receptors, open space loss and agricultural land loss or disturbance. The PEIR concluded that highway projects, including projects such as the SR-241, could cause significant unavoidable adverse impacts. The analysis in the 2004 PEIR (p. 3.1-1- 3.1-20) adequately addresses this project at the program level. Incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Population, Housing and Employment

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project – The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

Due to implementation of one or more of the replacement projects, it is possible that site specific impacts could occur. However, because the replacement projects are operational improvements by nature, significant new construction is not anticipated. In addition, the proposed replacement projects would not require the acquisition of right-of-way since all of the proposed replacement projects would occur on existing right of way. Therefore, the analysis in the 2004 PEIR adequately addressed impacts that could result from these projects at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 RTP PEIR.

SR 241 –The proposed change of reducing the project from four to three lanes in each direction would represent a reduction in the acquisition of right-of-way necessary to implement the



proposed change. The reduced footprint of SR 241 is anticipated to result in a commensurate reduction in potential environmental impacts. The potential growth impacts associated with this project were addressed at the regional scale and would not be increased with this proposed change. Therefore, the analysis in the 2004 RTP PEIR adequately addresses this project at the program level. Incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Transportation

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project – The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

The removal of these projects could potentially result in increased usage on other areas of the transportation network. However, several transit options are included in the package of replacement projects (BRT, increased shuttle service and Metrolink service). The addition of these projects would offset the potential impacts to the overall transportation network. The analysis in the 2004 PEIR adequately addressed impacts that could result from these projects at the program level. In addition, each of the proposed replacement projects will be evaluated at the project-level. Therefore, incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 — As stated in the population section, the proposed change of reducing the project from four to three lanes in each direction would represent a reduction in the overall scope of the project and therefore, would not be likely to induce additional growth beyond those levels that are currently anticipated. Therefore, increases in VMT associated with the proposed project would not appreciably increase. The analysis in the 2004 PEIR adequately addressed this project at the program level. Incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Air Quality

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project – (The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

The replacement of the CenterLine and Yorba Linda Station projects with the proposed operational improvement projects is not expected to have an adverse effect on regional air quality. Both projects are considered to be Transportation Control Measures (TCMs) and as such would provide an air quality benefit to the region. The regional emissions modeling analysis performed for the RTP Amendment determined these replacement projects would provide equal or greater emissions benefits than the projects they are replacing. Therefore, incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 –The analysis in the 2004 PEIR adequately addresses this project at the program level. Therefore, incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Noise Noise

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project – The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

The increase in bus and train service along certain lines (i.e., BRT and Irvine Shuttle Service) could cause an increase in ambient noise levels. However, the assessment in the 2004 PEIR noise chapter (3.5-17- 3.5-27) adequately evaluates these impacts at the programmatic level. Therefore, the analysis in the 2004 RTP PEIR adequately addresses impacts that could result from this project at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 RTP PEIR.

SR 241 –The reduction in project footprint would not be expected to cause a significant change in noise levels beyond those evaluated in the 2004 PEIR. Therefore, the analysis in the 2004 PEIR adequately addressed this project at the program level. Incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Aesthetics and Views

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project — The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

Implementation of the proposed replacement projects is not anticipated to cause a significant adverse impact on aesthetics or views. The proposed modifications would be on an existing system and would be at grade. The 2004 PEIR determined that improvements proposed on existing systems would be less than substantial than those potentially created by new system projects (such as the CenterLine and Yorba Linda Station) (p. 3.6-13) Therefore, the analysis in the 2004 PEIR adequately addresses impacts that could result from this project at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 —Although a narrower alignment than originally proposed, the project would be expected to have a significant impact on aesthetics due the addition of visual elements of urban character to an existing natural, rural and open space area (p. 3.6-11- 3.6-22). The proposed reduction in scope would neither increase nor lessen the impacts of the proposed project on aesthetics and views. Therefore, the analysis in the 2004 PEIR adequately addresses this project at the program level. Incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Biological Resources

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project – The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

The proposed replacement projects would be implemented on existing roadways and would not be anticipated to impact biological resources. In the event that impacts occur, mitigation measures proposed in the Biological Resources chapter may help reduce or eliminate potential impacts associated with the proposed projects. Detailed project-level analysis for specific projects, including project level mitigation measures, will be conducted by implementing agencies on a project-by-project basis. Therefore, the analysis in the 2004 PEIR adequately addresses impacts that could result from this project at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 –The 2004 PEIR determined that significant biological impacts could occur where previously undisturbed land would be disturbed (3.7-21- 3.7-28). The proposed reduction in the project footprint has the potential to decrease the area of potential disturbance and therefore, may result in a decreased impact on biological resources. Therefore, the analysis in the 2004 PEIR adequately addresses this project at the program level. Incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Cultural Resources

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project – The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

The 2004 PEIR concluded that improvements proposed in exiting rights of way such as new bus-ways would have limited potential to impact historic resources, archeological resources, and paleontogical resources (p. 3.8-18 - 3.8-24). Thus, the replacement projects for the CenterLine and Yorba Linda Station projects have the potential to result in reduced impacts to cultural resources. Therefore, the analysis in the 2004 PEIR adequately addresses impacts that could result from this project at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 –The 2004 PEIR concluded that highway projects could potentially cause significant unavoidable impacts on cultural resources, including impacts on historic, archaeological, and paleontological materials (p. 3.8-18- 3.8-24); In addition, there is the potential to encounter human remains in previously undisturbed areas. The proposed reduction in size of SR 241 has the potential to decrease potential impacts on cultural resources. Therefore, the analysis in the 2004 PEIR adequately addresses this project at the program level. Incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Geology, Soils and Seismicity

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project – The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

The 2004 PEIR concluded that highway and rail construction may require significant earthwork and road cuts, increasing long-term erosion potential and slope failure (p. 3.9-16). The Centerline would have required significant earthwork. The Yorba Linda Station would have required ground and soil disturbance as well as excavation and grading.

The proposed replacement projects are all proposed on existing right-of-way and therefore would involve fewer earth moving activities. In addition, incorporation of mitigation measures proposed in the 2004 PEIR would alleviate impacts associated with seismic safety (p. 3.9-19-3.9-22). Detailed project level analysis for specific projects, including project level mitigation measures, will be conducted by implementing agencies on a project-by-project basis. Therefore, the analysis in the 2004 PEIR adequately addresses impacts that could result from this project at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 –As stated above, the 2004 PEIR concluded that highway and rail construction may require significant earthwork and road cuts, increasing long-term erosion potential and slope failure (p. 3.9-16). The proposed reduction in scope would have the potential to decrease the impacts of the proposed project on geology, soils and seismicity due to the reduced area of potential disturbance. Detailed project-level analysis for the project, including mitigation measures as appropriate, will be conducted by implementing agencies. Therefore, incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Hazardous Materials

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project – The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

The 2004 PEIR concluded that general improvements to the transportation system would facilitate the movement of all types of goods including hazardous materials (p. 3.10-7 - 3.10-9). Although the proposed replacement projects would not specifically facilitate, increase or decrease the transport of hazardous materials detailed project-level analysis for the projects, including mitigation measures as appropriate, will be conducted by implementing agencies. Therefore, the analysis in the 2004 PEIR adequately addresses impacts that could result from this project at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 –As mentioned above, the 2004 PEIR concluded that highway improvements to the transportation system would facilitate the movement of all types of goods, including hazardous materials. The proposed reduction in size may have a negligible or unquantifiable reduction of impacts relative to hazardous materials. Therefore, the analysis in the 2004 PEIR adequately addresses this project at the program level. Incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Energy

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project — The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic



level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

Operation of the proposed replacement projects are expected to have less than significant impacts on consumption of petroleum or diesel fuels. The 2004 PEIR concludes that "new transit vehicles and transit stations for Maglev, Metrolink, light rail and rapid bus would require electricity and natural gas during project operation" and identifies mitigation measures to reduce these impacts (p. 3.11-13 - 3.11-16). Detailed project-level analysis for the projects, including mitigation measures as appropriate, will be conducted by implementing agencies. Therefore, the analysis in the 2004 PEIR adequately addresses impacts that could result from this project at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 –As described above in the population and transportation sections, this change would represent a reduction in the overall scope of the project and therefore, would not be likely to result in additional growth. As a result, energy consumption impacts would not be anticipated to be greater than the levels previously evaluated in the 2004 PEIR. Therefore, the analysis in the 2004 PEIR adequately addresses impacts that could result from this project at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

Water Resources

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project – The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

The 2004 PEIR identified an increase in impervious surfaces as a significant adverse impact (p. 3-12-23 - 3.12-29). The proposed replacement projects will generally be implemented on the existing network and right-of-way and therefore would not cause a substantial increase in the overall amount of impervious surfaces in the region. Detailed project-level analysis for the projects, including mitigation measures as appropriate, will be conducted by implementing agencies. Therefore, the analysis in the 2004 PEIR adequately addresses impacts that could result from this project at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 –The proposed change of reducing the project from four to three lanes in each direction would represent a decrease in the amount of impervious surface compared to the project as evaluated in the 2004 PEIR. Therefore, the analysis in the 2004 PEIR adequately addresses this project at the program level. Incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Public Services and Utilities

CenterLine Light Rail Project & Yorba Linda Metrolink Station Project — The 2004 RTP and PEIR included the CenterLine and Yorba Linda Station project elements at a programmatic level. The previously identified environmental impacts associated with these two projects proposed to be deleted, would no longer be expected to occur.

The 2004 PEIR identifies several types of projects that would require an increase in the level of police, fire and medical services. These include projects involving new roadways and transit related projects that require the construction of new transit stations (3.13.9-3.13-14). The proposed replacement projects do not fall into either of these categories and therefore are not anticipated to have a significant adverse impact on police, fire and/or medical services. Therefore, the analysis in the 2004 PEIR adequately addresses impacts that could result from this project at the program level. Incorporation of these changes into the 2004 RTP would not result in any additional significant impacts beyond those identified in the 2004 PEIR.

SR 241 —As stated above, projects adding new roadways are anticipated to require additional police, fire and emergency medical services for safety purposes (3.13.9 - 3.13-14). The proposed reduction in scope would not be expected to increase or decrease the levels of anticipated impacts on public services. Therefore, the analysis in the 2004 PEIR adequately addresses this project at the program level. Incorporation of the proposed changes into the RTP would not create any significant impacts beyond those that were previously identified.

Comparison of Alternatives

The CenterLine Light Rail and Yorba Linda Metrolink Station replacement projects and reduced SR-241 project footprint and area of impact does not appreciably affect the comparison of alternatives in the 2004 PEIR in any meaningful way. Each of the projects is contemplated within the scope of the programmatic-level comparison among the alternatives considered in the 2004 PEIR: 1) No Project, 2) Modified 2001 RTP Alternative 3) The PILUT 1 (Infill) Alternative 4) The PILUT 2 (Fifth Ring) Alternative. The analysis in the Comparison of Alternatives chapter of the 2004 PEIR is not significantly affected by the removal of two projects, substitution of the proposed Centerline and Yorba Linda Station replacement projects or reduction in the proposed SR-241 footprint. Therefore, no further comparison is required at the programmatic level. Project-level comparisons of alternatives, however, will be conducted by implementing agencies when they prepare CEQA/NEPA documents for specific future projects.

Long Term Effects

The CenterLine and Yorba Linda replacement projects and reduced footprint of the SR-241 project are both within the scope of the discussion presented in the long-term effects chapter of the 2004 PEIR, which includes an assessment of programmatic level unavoidable impacts, irreversible impacts, growth inducing impacts, and cumulative impacts. Unavoidable and irreversible impacts from the replacement of the CenterLine and Yorba Linda Station and the reduced size of the SR-241 are reasonably covered by the unavoidable and irreversible impacts previously discussed in the certified 2004 PEIR. Unavoidable and irreversible impacts will be further analyzed by implementing agencies at the project level. Any growth inducing impacts are expected to be approximately equivalent to those previously disclosed in the 2004 PEIR. Overall, the projects are within the scope of the broad, programmatic-level impacts identified and disclosed in the PEIR. Thus, the proposed changes are consistent with the findings on long-term effects in the 2004 PEIR. Detailed analysis of impacts on long-term effects will be conducted by implementing agencies at the project level.

Conclusion

With the exception of the SR 241 toll road project, the proposed changes to the 2004 RTP are generally operational improvements and are not anticipated to result in direct construction



impacts. SR 241 would be reduced from four to three lanes in each direction which would reduce the potential footprint of the project and corresponding area of potential environmental effect.

The 2004 RTP included hundreds of projects. The deletion of two projects that would have resulted in significant construction and long-term operational impacts and replacement with projects not likely to result in significant new construction would have a negligible environmental impact when viewed in light of the scope and nature of the entire Plan.

After completing its' programmatic environmental assessment of these changes, SCAG finds that adoption of the proposed RTP Amendment would not result in either new environmental significant effects or a substantial increase in the severity of previously identified significant effects. The proposed changes as expressed in the 2004 RTP Amendment, therefore, are not substantial changes which would require major revisions to the PEIR. Thus, a subsequent or supplemental EIR is not required and this Addendum fulfills the requirements of CEQA.

PUBLIC REVIEW AND COMMENT

SCAG is required to provide a 30-day public review and comment period for the Draft Amendment. A Notice of Availability and Public Hearing was posted on the SCAG website at www.scag.ca.gov on December 1, 2006, and published in major newspapers in the six-county region. The Draft Amendment was made available on the SCAG website and copies were provided for review at SCAG and at public libraries throughout the region. Written comments were accepted until 5:00pm January 6, 2006. In addition, a public hearing was held at SCAG on January 5, 2006. To fulfill the state's AB1246 interagency consultation requirement, a meeting of the Regional Transportation Agencies Coalition (RTAC) was held on January 18, 2006 to discuss the Amendment.

SCAG received two written comments on the Draft Amendment. The comments, along with SCAG's responses, are as follows.

Name, Organization, Address	Comments	SCAG Response
Michael Brady California Department of Transportation DOTP-ORIP Air Quality/Conformity Coordinator mike_brady@dot.ca.gov	The "improve Orange Line Metrolink service" item should be described in a little more detail. What's the delivery timeframe and has BNSF/Metrolink been consulted? Does Metrolink and/or BNSF have the capacity to deliver increased service in that timeframe, and what was assumed in terms of increased service in the conformity analysis?	The Metrolink portion of the TCM substitution entails a 50% improvement in headways for both peak and off-peak service on the IEOC line between San Bernardino and San Juan Capistrano, and on the 91 line between Riverside and Union Station. The project description on page 2 of the Amendment has been updated to clarify this. All of the CenterLine substitution projects are assumed to be in place by 2010. OCTA is working closely with Metrolink to implement the TCM substitution (see Attachment E).
Dennis Wade Air Pollution Specialist California Air Resources Board Planning and Technical Support dwade@arb.ca.gov	The ratios to estimate the additional benefit of directing 20% of the vehicles to test only are: ROG 0.996, NOx 0.997. These are annual estimates for calendar year 2002 for the South Coast Air Basin.	SCAG has updated its calculation of NOx for I/M credit using the following: 1 – 0.997 = 0.003, based upon the information provided by the Air Resources Board. The updated numbers for year 2002 are reflected on page 15 of the Amendment. The revisions do not change either the conclusions of the analysis or the conformity determination.

ATTACHMENT A

OCTA REQUESTS FOR CENTERLINE AND YORBA LINDA METROLINK STATION SUBSTITUTION



AFFILIATED AGENCIES

Orange County Transit District

Local Transportation Authority

Service Authority for Freeway Emergencies

Consolidated Transportation Service Agency

Congestion Management Agency

> Service Authority for Abandoned Vehicles

November 30, 2005

Mr. Mark Pisano
Executive Director
Southern California Association of Governments
818 West Seventh Street, 12th Floor
Los Angeles, CA 90017

Dear Mr. Pisano:

On October 18, 2005, the Orange County Transportation Authority (OCTA) Board of Directors sent a letter requesting the Southern California Association of Governments (SCAG) to prepare and approve a Regional Transportation Plan (RTP) and Regional Transportation Improvement Program (RTIP) amendment to formally replace the CenterLine and Yorba Linda Station projects with substitute transportation control measures (TCM) for Federal Highway Administration approval. Since that time OCTA and SCAG staff have been working diligently with the Federal Highway Administration (FHWA), the Air Quality Management District (AQMD), and the Transportation Conformity Working Group (TCWG) to finalize this request.

The TCWG met on November 22, 2005, to discuss the eligibility of the proposed substitution TCMs. At that meeting, FHWA stated that the Fullerton Station was not a suitable replacement for the Yorba Linda Station project. However, it was determined that the proposed CenterLine replacement projects have ample emissions benefits to be used as substitutions for both CenterLine and Yorba Linda Station. OCTA would like to revise the October 18, 2005, request to now use the proposed CenterLine replacement projects for both CenterLine and Yorba Linda Station.

In summary, the 9-mile CenterLine light rail and the Yorba Linda Station TCMs will be replaced with a combination of four projecs:

- 28-mile mixed flow Bus Rapid Transit from the Brea Mall to the Irvine Transportation Center
- Metrolink Service expansion providing enhanced service between the Inland Empire and Orange county
- Irvine Business Center shuttle connecting John Wayne Airport to the Irvine Business Center
- Free 3+ HOV on the 91 Express Lanes, from State Route 55 to the Orange County /Riverside County line.



Mr. Mark Pisano November 30, 2005 Page 2

This request is in compliance with the South Coast Air Basin Air Quality State Implementation Plan's (SIP's) federally-approved requirements for substituting TCMs. OCTA has also fulfilled the interagency consultation requirement for TCM substitution. As noted in the previous request, OCTA staff has documented the countywide emissions impacts of the substitute projects and concluded that the replacement projects provide equal or greater emission reductions within the same timeframe and geographic area as the original TCMs. SCAG staff has reviewed the methodology OCTA used for the analysis and concurs with it. The replacement projects are fully funded and OCTA is committed to delivering them within the specified timeframe.

OCTA's Board of Directors and management appreciate SCAG's timely approval and processing of the RTP and RTIP amendment to implement this substitution.

Sincerely,

Paul C. Taylor

Executive Director, Planning

Development and Commuter Services

C: Hassan Ikharta, SCAG Sylvia Patsouras, SCAG



AFFILIATED AGENCIES

Orange County Transit District

Local Transportation
Authority

Service Authority for Freeway Emergencies

Consolidated Transportation Service Agency

> Congestion Management Agency

> > Service Authority for Abandoned Vehicles

October 18, 2005

Mr. Mark Pisano
Executive Director
Southern California Association of Governments
818 West Seventh Street, 12th floor
Los Angeles, CA 90017

Dear Mr. Pisano,

On October 14, 2005, the Orange County Transportation Authority (OCTA) Board of Directors approved the replacement of CenterLine and the Yorba Linda Station projects with substitute Transportation Control Measures (TCMs). The Board of Directors requests that the Southern California Association of Governments (SCAG) prepare and approve a Regional Transportation Plan (RTP) and Regional Transportation Improvement Program (RTIP) amendment to formally replace the CenterLine and Yorba Linda Station projects with the substitute TCMs for final Federal Highway Administration approval. Timely completion of the amendment by April 2006 is requested to meet deadlines for reallocating funds to the new TCMs.

In compliance with the South Coast Air Basin Air Quality State Implementation Plan's (SIP's) federally-approved requirements for substituting TCMs, OCTA staff worked closely with SCAG staff to define substitutes for the two projects:

- The 8-mile Centerline light rail TCM will be replaced with a combination of four projects:
 - 28-mile mixed-flow Bus Rapid Transit from Brea Mall to Irvine Transportation Center
 - Metrolink Service expansion providing enhanced service between the Inland Empire and Orange County
 - Irvine Business Center shuttle connecting John Wayne Airport to Irvine Business Center
 - Free 3+ HOV on the 91 Express Lanes, from State Route 55 to the Orange County/Riverside County line.

Mr. Mark Pisano October 18, 2005 Page 2

2) The Yorba Linda TCM will be replaced with the Fullerton Station Parking Structure project.

OCTA staff has documented the countywide emissions impacts of the substitute projects and concluded that the replacement projects provide equal or greater emission reductions within the same timeframe and geographic area as the original TCMs. SCAG staff has reviewed the methodology OCTA used for the analysis and concurs with it.

OCTA also fulfilled the interagency consultation requirement for TCM substitution. OCTA management presented the proposed TCM substitution to the Transportation Conformity Working Group on July 26, and September 22, 2005, and will return on October 25, 2005, to report on the OCTA Board of Director's final action.

OCTA's Board of Directors and management appreciates SCAG's timely approval and processing of the RTP and RTIP amendment to incorporate this substitution.

Singerely,

Arthur T. Leahy

Chief Executive Officer

ATL:pt

Attachment: Orange County Transportation Control Replacement Report

ATTACHMENT B

OCTA TCM REPLACEMENT REPORT

Orange County Transportation Control Measure Replacement

Presented to

Southern California Association of Governments

Submitted by

Paul Taylor, Executive Director Planning, Development and Commuter Services Orange County Transportation Authority 550 South Main Street Orange, CA 96184

November 22, 2005

Orange County Transportation Control Measure Replacement

I Introduction

Orange County Transportation Authority plans to replace two existing Transportation Control Measures (TCMs) with new TCM projects that together provide equivalent or greater emission reductions, while meeting all TCM substitution requirements specified in Appendix IV-C of the 1994 and 2003 South Coast Air Quality Management Plan/State Implementation Plan.

Two replacements will be discussed in this technical report:

Centerline. Replace the 8-mile Centerline light rail project as a TCM.

Yorba Linda Station. Replace the Yorba Linda Metrolink Station as a TCM.

Both of these projects will be replaced with a package of four new projects to be designated as TCMs in the Regional Transportation Plan and Regional Transportation Improvement Program:

- 28-mile mixed flow Bus Rapid Transit from Brea Mall to Irvine Transportation Center
- Metrolink Service expansion providing enhanced service between the Inland Empire and Orange County
- Irvine Bus Center Shuttle connecting John Wayne Airport to Irvine Business Center
- Free 3+ HOV on the 91 Express Lanes, from SR 55 to the Orange County/Riverside County line.

The following report presents the criteria for TCM replacement that apply to the Centerline and Yorba Linda Station TCMs. Further the report includes a description of each TCM project to be replaced, the need for replacement, the implication of the replacement on the Regional Transportation Plan and Regional Transportation Improvement Program, and a description of the proposed replacement projects. The technical analysis for the replacement presents emissions data for the original and replacement TCMs.

II TCM Replacement Procedures and Requirements

Replacement of Centerline and Yorba Linda Station with new TCMs must follow the substitution protocol specified in the federally-approved Air Quality Management Plan/State Implementation Plan (AQMP/SIP).

Transportation Control Measures are contained in Appendix IV-C of the AQMP/SIP. The TCM replacement process is also spelled out in this appendix to the 1994, 1997 and 2003 AQMPs; USEPA formally approved the replacement process in the 1994 AQMP/SIP.

The TCM Replacement section describes the circumstances in which TCM's must be replaced: "a specific TCM project may be found to be non-implementable within the designated time frame and a new TCM project is substituted. The AQMP specifies procedures for replacing individual projects such as Cepterline and the Yorba Linda Metrolink Station:

- The CTCs and/or project sponsors shall notify SCAG when a TCM project cannot be delivered or will be significantly delayed.
- SCAG, CTC or project sponsor can propose a substitute measure.
- Prior to adopting an individual TCM substitution, the measure must have been subject to interagency consultation (via the Transportation Conformity Working Group), public review and comment period and emissions analysis.
- The replacement measure must be subject to the SCAG Regional Council review and adoption.
- Upon adoption by the Regional Council, the new measure will replace the previous measure and will be incorporated into the RTIP through an administrative amendment.
- Adoption by SCAG's Regional Council will rescind the previous TCM and apply the new measures.

Proposed replacement projects must also meet specific criteria:

- The substitution of an individual measure must provide equivalent or greater emissions reductions than the measure being replaced in the AQMP/SIP.
- The substituted measure should preferably be located in the same geographic area and serve the same demographic subpopulation as the TCM it is replacing.
- A substitute measure must be fully funded and implemented in the time frame established for the measure contained in the SIP.

- The substitute measure must be fully implemented within two years of the implementation date of the original measure in order to meet the test for a finding of timely implementation.
- There must be evidence of adequate authority under State or local law to implement and enforce the measures.
- Commitments to implement the substitute measures must be made by the agency with authority for implementation.
- The analysis of replacement measures must be consistent with the methodology used for evaluating measures in the Air Plan.
- Where emissions models and/or transportation models have changed since those used for purposes of evaluating measures in the attainment plan, both the previous TCM and the new TCM shall be evaluated using the latest planning assumptions and modeling techniques in order to demonstrate consistency with the current Air Plan.

Section III of this report includes a summary of the Centerline and Yorba Linda Station replacement TCMs' fit with each of the requirements established by the AQMP.

III Orange County TCM Replacements

Centerline TCM Description

On October 22, 2001, the OCTA Board of Directors approved an 18-mile Centerline rail transit alignment between the Irvine Transit Center and the Sana Ana Regional Transportation Center.

On July 21, 2003, the OCTA Board of Directors reduced the Locally Approved Alternative project length to 8 miles. The 10-mile segment of Centerline was formally replaced by three projects that together provide equivalent emission reductions within the same timeframe and geographic area. The replacement project package consisted of

- An 8-mile Centerline project connecting John Wayne Airport and Santa Ana Transit Center/Metrolink-Amtrak Station;
- Intracounty rail services to cover the area where the 10-mile Centerline segment was deleted; and
- Upgraded bus service providing 402 new weekday bus trips in the deleted portion of the Centerline corridor, including runs from John Wayne Airport to UC Irvine.

This replacement was completed after interagency consultation with federal, state and local agencies through SCAG's Transportation Conformity Working Group. SCAG's longrange Regional Transportation Plan (RTP) and six-year Regional Transportation Improvement Program (RTIP) were revised accordingly and approved by the Federal Highway Administration.

Thus, the current Centerline project in the RTP and RTIP is an 8-mile portion of the original 18-mile light rail line TCM from John Wayne Airport to the Santa Ana Transit Center. The Centerline project alignment is indicated on Maps 1 and 2.

Need for Centerline Replacement. The 8-mile Centerline project is designated as a Transportation Control Measure (TCM) in the 2003 Air Quality Management Plan. As a TCM, the commitment to build Centerline by 2010 can be eliminated only if projects with equivalent emission reduction benefit replace it in the RTP, RTIP and AQMP.

Centerline must be replaced at this time because funding shortfalls prevent the project and its emission benefits from being delivered by 2010 as required by the AQMP. Centerline funding is drawn from three sources: Orange County's 1/2-cent sales tax, Measure M, which provided seed money for a "starter system," and state and federal funding.

OCTA sought federal appropriations for Centerline in FY 2004/2005. Given the prospect of a lack of a federal funding commitment essential to delivering the project, in February 2005, the OCTA Board paused Centerline implementation in order to identify and study options for replacing Centerline. Again, OCTA sought FY 2005/2006 funding through SAFETEA-LU, but the federal transportation bill was ultimately approved without a Centerline funding earmark.

While the state funding earmark was obtained, anticipated federal funding for the Centerline project has not been, and will not be, forthcoming in a timeframe that allows delivery of the project and associated emission reductions by 2010 as required by the AQMP.

Therefore, the OCTA Board formally directed staff to pursue alternatives to Centerline, and to identify substitute projects that meet the criteria for TCM replacement spelled out in the AQMP. In addition, the Board directed that replacement projects be constrained with funds under OCTA's control to insure delivery of the replacement projects by 2010.

Failure to replace the Centerline project would lead to a lapse in timely implementation of TCM-01, which in turn would jeopardize continued federal approvals and funding for all other projects in the RTP and RTIP.

Implications of Centerline Replacement for 2004 RTP and 2004 RTIP. At present, the 8-mile Centerline project is included in the 2004 Regional Transportation Plan and 2004 RTIP as follows:

ORA 194

Central Orange County Fixed guideway (Centerline) for construction from Santa Ana Transportation Center fo John Wayne Airport. Includes rolling stock for Intial operating segment.

At the conclusion of the interagency consultation process, OCTA will request that SCAG amend the 2004 RTP and 2004 RTIP to remove the remaining Centerline project description, and designate the replacement projects as TCMs. OCTA will submit the appropriate changes to SCAG by October 20, 2005, for inclusion in 2004 RTP/RTIP. The replacement projects will be carried forward into the 2007 RTP update now being developed by SCAG.

The replacement projects will also subsequently be included in annual TCM Timely Implementation Reports that SCAG submits to FHWA to demonstrate that the projects are being implemented on time in fulfillment of the AQMP TCM requirements.

Yorba Linda Station TCM Description

The Yorba Linda Station project proposes to construct a new rail station, including 347 parking spaces for station use. The proposed Yorba Linda Station project is depicted on Maps 1 and 2.

Need for Yorba Linda Station Project Replacement. The City of Yorba Linda City Council voted, on March 16, 2004, to cancel this project. OCTA is thus seeking to replace this project before formally removing it from the RTP and RTIP.

Implication of Yorba Linda Station Project Replacement for 2004 RTP and RTIP. The Yorba Linda Station project is currently programmed as a TCM in the triennial period of the RTIP. The project is included in the 2004 RTP and 2004 RTIP as follows:

ORA 981103 In Yorba Linda, construct commuter rail station and park-and-ride (347 spaces)

At the conclusion of the interagency consultation process, OCTA will request that SCAG amend the 2004 RTP and 2004 RTIP to remove the Yorba Linda Station project description, and designate the replacement projects as TCMs in its place. OCTA will submit the appropriate changes to SCAG by October 12, 2005, for inclusion in a formal RTP/RTIP Amendment. The replacement project will be carried forward into the 2007 RTP update now being developed by SCAG.

The replacement projects will also subsequently be included in annual TCM Timely Implementation Reports that SCAG submits to FHWA to demonstrate that the projects are being implemented on time in fulfillment of the AQMP TCM requirements.

Recommended Centerline/Yorba Linda Station Replacement Project Package

TCM Replacement Project Identification. Working with the OCTA Board's Transit Planning and Operations Committee, OCTA staff has analyzed thirty-four potential replacement projects with the potential to provide equivalent or greater emission reductions than the Centerline and Yorba Linda Station projects. The options included:

- The current project, the 8-mile Centerline alignment between John Wayne Airport and Santa Ana Transit Center/Metrolink-Amtrak Station.
- Other light transit rail
- Bus Rapid Transit, expanding the BRT system from two current lines to 3 or more lines.
- Commuter rail, increasing Metrolink service frequency and/or new locations.

- Gateways to regional connections, including the MagLev system, California High Speed Rail, and the California/Nevada High Speed Train
- Other transit projects, such as additional investment in the OCTA bus system
- Road projects. and
- 3+ HOV requirements for the 91 Express Lanes.

During six work sessions, the Board's Transit Planning and Operations Committee determined that no single replacement project was available. The Committee investigated six "packages" of projects with the potential to replace Centerline and Yorba Linda Station. The Committee also defined a seventh package of projects for further analysis that included countywide Bus Rapid Transit; increasing Metrolink service; and high speed rail and MagLev system investments.

Recommended TCM Replacement Projects. OCTA requests that the 8-mile Centerline TCM and Yorba Linda Station TCM be replaced with a package of four projects that meet the TCM replacement criteria set in the AQMP/SIP. Although each project meets the eligibility criteria for TCM status, none is currently included in the RTIP or designated as a TCM. The replacement projects are indicated on Maps 1 and 2, along with the Centerline alignment and Yorba Linda Station location.

Bus Rapid Transit. This project provides a 28-mile BRT line extending from Brea Mall to Irvine Transportation Center. This line follows portions of the original Centerline alignment, and builds on the existing BRT network in Orange County. The BRT project will cost \$36.9 million for structures and rolling stock.

Metrolink Service Expansion. This project provides enhanced service on Orange Inland Empire —Orange County line and 91 line, and will cost \$197 million.

Irvine Bus Center Shuttle. CNG-fueled shuttle vehicles will connect John Wayne Airport to Irvine Business Center, one of the County's and the region's major employment concentrations. The project will cost \$12.3 million.

Free 3+ HOV on the 91 Express Lanes. Free access to the 91 Express toll lanes will be provided to 3+ carpools, from SR 55 to the Orange County/Riverside County line. The 91 Express Lanes relieve congestion on one of the most impacted freeways in the Southern California region. This operational change will not require any capital investment.

IV Technical Analysis

This technical analysis documents the evidence that the Centerline and Yorba Linda Station replacement TCMs meet the substitution criteria spelled out in the AQMP/SIP: equivalent emissions, similar geographic service area, similar implementation schedule, and demonstrated financial commitment to complete the project on time.

Methodology for Analyzing Original Project and Replacement The air quality impacts of the 8-mile Centerline TCM and Yorba Linda Station TCM were compared with the proposed TCM Replacement projects using a 2-step method based on SCAG's emissions program focused on Orange County. OCTA's OCTAM 3.2 travel demand model, which is consistent with SCAG's regional model, provided travel information on the Centerline and replacement TCMs.

Step 1: Obtain daily vehicle miles traveled (VMT) and speed data for freeways, arterials and transit bus from OCTAM 3.2. Extract all loaded link information, intrazonal travel speeds, and intrazonal travel volumes for all modeled time periods.

Step 2: Run SCAG emissions program using the extracted information from Step 1 as input to obtain vehicle starts, VMT, and vehicle population data. The result of this program is an EMFAC2002 input file for Orange County reflecting the model run. This program outputs emissions exhaust for ROG, NOx, CO and PM-10 pollutants by running EMFAC 2002. The additional emissions resulting from added bus and train service as part of each alternative are calculated and included in the overall emissions estimates. The modeling assumes that 2010 intracounty train equipment will be ultra-low emission diesel engines and average 35-45 mph while the bus equipment will be clean natural gas engines and average 25-35 mph.

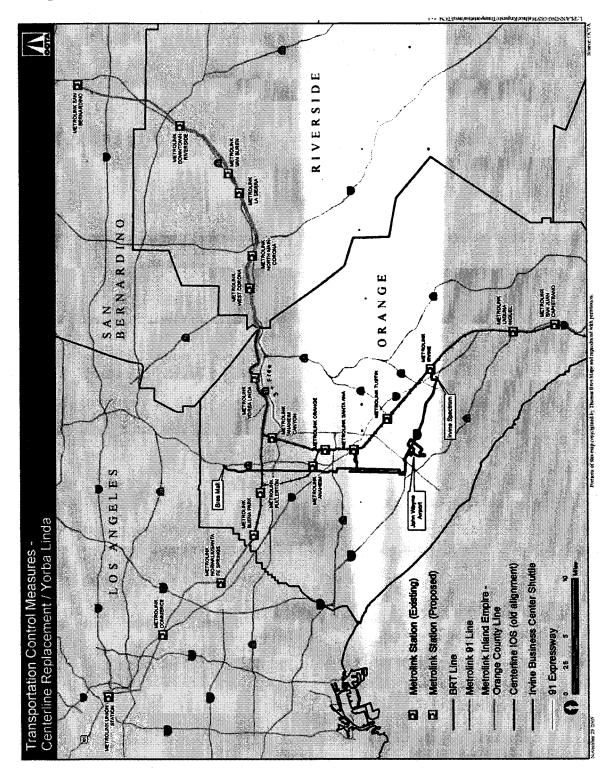
Replacement Criteria

Emission Analysis. Based on the results of the modeling described above, Tables 1 and 2 compare the Centerline and Yorba Linda Station TCMs with proposed replacement TCM project total emissions for 2010 and 2030. The emissions data demonstrate that the replacement project package provides equivalent or greater emission reductions for Orange County than the current Centerline and Yorba Linda Station projects.

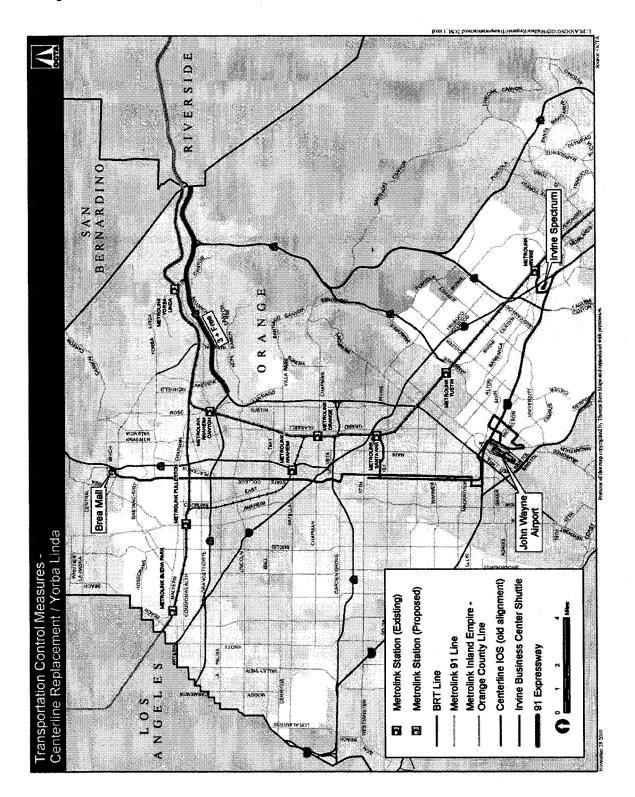
Geographic Area/Service Area/Accessibility. The 8-mile Centerline TCM provided intra-county light rail service between John Wayne Airport/Irvine and Santa Ana Regional Transportation Center. Yorba Linda Station provided 347 parking spaces and station infrastructure in northeast Orange County. Map 1 depicts the service area of the Centerline and Yorba Linda Station TCMs and the proposed Replacement TCM projects.

The replacement Bus Rapid Transit (BRT) route parallels and intersects the original Centerline alignment, providing accessibility to the same population in the same service area as Centerline. By expanding BRT routes, the replacement TCM provides an even

Map 1



Map 2



greater level of connectivity with existing bus and Bus Rapid Transit routes than Centerline. 8-minute BRT headways are consistent with those for Centerline. Metrolink service will provide expanded accessibility to and from jobs in Orange County. The expanded Orange County-Riverside County service will reduce congestion on all routes carrying Inland Empire commuters to Orange County jobs. Enhanced Metrolink Service will benefit residents and workers throughout northeast Orange County, including the Yorba Linda area.

The Centerline corridor traversed an area rich in housing to connect major business concentrations in downtown Santa Ana and Irvine including John Wayne Airport, Irvine industrial area north of the airport, and Irvine Business Center. The Replacement TCM projects also serve the cities of Irvine, Tustin and Santa Ana as well as greater Orange County. In the City of Santa Ana, the project corridor serves an area with median income below \$35,000. In Tustin and Irvine, median income is above \$60,000. Lower income Santa Ana residents have good access to job rich areas using either the BRT or Metrolink improvements included in the Replacement TCM.

Implementation Schedule. The four replacement projects are all programmed for delivery on or before 2010, on the same schedule as the emission reductions from Centerline and Yorba Linda Station.

Financial Commitment. The replacement TCM projects will require a total of \$246.2 million. OCTA has programmed \$465 million of Measure M sales tax funds for the Centerline project. A portion of Centerline funds will now be reallocated to the replacement TCM projects.

Table 1
2010 Comparison of Centerline/Yorba Linda TCMs and Replacement TCM:
Boardings and Countywide Total Exhaust Emissions (tons per day)

2010

	Centerline/ Yorba Linda TCM	Replacement TCM
Daily Boardings	265,921	266,313
ROG	33.32	33.30
СО	297.77	297.55
NOx	63.45	63.44
PM-10	30.78	30.78

Table 2

2030 Comparison of Centerline/Yorba Linda Station TCMs and Replacement TCM Boardings and Countywide Total Exhaust Emissions (tons per day)

	Centerline/	
	Yorba Linda TCM	Replacement TCM
Daily Boardings	379, 887	380,447
ROG	16.59	16.58
CO	113.12	113.03
NOx	18.74	18.73
PM-10	43.34	43.34

Summary of Orange County TCM Replacement Project Fit with Required Replacement Procedures and Criteria

- SCAG Review and Adoption. On December 2, 2005, SCAG's Transportation and Communications Committee will consider the release of the Draft RTP/RTIP Amendment for 30 day public review, followed by SCAG Regional Council action on February 2, 2005.
- Interagency Consultation. Interagency consultation has occurred at SCAG's publicly noticed Transportation Conformity Working Group meetings on July 26, September 22, October 25, and November 22, 2005.
- Equivalent Emission Reductions. The four replacement projects provide equivalent or greater emission reductions for ROG, NOx, CO and PM-10 as presented in Tables 1 and 2.
- Similar Geographic Area. The replacement projects serve Orange County and provide accessibility in the same corridors as the original TCMs. Improved BRT and Metrolink headways benefit the entire County.
- Full Funding. The \$246.2 million package of replacement projects will be fully funded with revenues currently programmed for the Centerline project.
- Similar Time Frame. Like the original TCMs; completion of the replacement projects will be scheduled to meet the original 2005 Yorba Linda Station delivery date, and the 2010 Centerline delivery date.
- Timely Implementation. The replacement projects will be included in annual TCM Timely Implementation Reports that SCAG submits to FHWA.
- Legal Authority. OCTA has full legal authority to construct and operate the replacement projects; OCTA owns the bus fleet, and owns the Metrolink track, rolling stock and station infrastructure.
- Implementation Commitment. The replacement projects will be added to the RTP/RTIP through a formal amendment to be approved by SCAG's Regional Council.
- **AQMP-Consistent Methodology**. The methodology for analyzing emissions used AQMP consistent assumptions and modeling techniques.
- Latest Planning Assumptions. Technical analysis of the replacement projects was based on EMFAC 2002 emission factors and OCTAM 3.1 demographic and travel demand data.

Appendix A: Technical Documentation

Emission Model Runs

Socioeconomic Data Maps

2010 CenterLine/Yorba Linda Station TCM Emissions

Centerline Projects Year 2010	Orange	County Average
Version : Emtac2002 V2.2 Apr 23 2003 ** W15	Enabled **	
Rum Date : 09/10/05 03:32:50		
Scen Year: 2010 Model Years: 1965 to 2010		
Season : Summer		

	Velsicle	WIT	Starts	ROG	CO:	NOX	PNIOEX	Tire W	Brake W	PNIOSUM
Passengar Car	1236400	30546	7745 \$40	15.14	142.34	11.27	0.47	0.34	0.53	1.34
Light-D-Trki	244730	7554	1519470	4.51	39.67	3.06	0.10	0.06	0.10	0.27
Light-D-Trk2	335918	10370	2214450	4.75	47.75	5,45	0.27	0.09	0.14	0.51
4eā1u∗D∗Trk	140753	4242	880657	2.78	25.55	3.38	0.12	0.04	0.86	0.21
Motor Cycle	31007	228	62008	1.10	3.46	0.29	0.01	0.00	0.00	0.01
LAM VEHECLE	1988808	60450	12322125	28.38	263,80	23.50	0.97	0.53	0.63	2.34
L-Heavy-D Ti	20806	984	620714	0.90	3.76	2.14	0.01	0.01	0.01	0.04
L-Heavy-D TZ	8220	354	205342	0.40	1.57	1.29	0.01	0.00	0.00	0.02
M-HRAVÝ-D T	22775	1123	731.434	1.22	4.50	9.04	0.22	0.01	0.02	0.25
H-HERVY-D T	14429	2057	134566	1.75	11.54	23.35	0.38	0.08	0.03	0.49
HD TRUCK	66230	45D8	1692056	4.25	25.39	35.86	0.62	0.10	0.06	0.40
Line Haull V	0	o	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
School Bus	1685	62	6739	0.07	0.75	0.72	6.03	0.00	0.00	0.03
urban Bus	1963	214	7851	0.48	4.21	2.76	0.05	0.00	0.60	0.05
Notor Home	23246	292		0.13	3,57	0.58	0.01.	0.00	0.00	C.01
NAME AND ADDRESS OF	****	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	********	**********	***	****	******	****	*****	American er
ALL VEHICL	2081940	65526	14031100	\$3.32	297.74	43,43	1.67	0.65	0.91	3.23

Note ; I and M program in effect Emissions in tones per day, VMT in 1900-miles cline2 vi0.prm

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2010 CenterLine/Yorba Linda Station Replacement TCM Emissions

Centerline R	ep1acene	nt Proj	ects Yea	r 2010		Orange	County	Average)	
Version : Emf. Run Date : 09/	ac2002 V2. 09/05 14:1	2 Apr 23	3003 ** M	is enable	# **					
Scen Year: 201	0 Made 1		1965 to 20	10						
Season : Sum	n# <i>c</i> *********	*****	*****	******	****	*******			*****	****
	Vehicle	VMT	Starts	ROG	œ	NOX	M10Ex	Tire N	Brake W	PHOLOSUM
Passenger Car	1235610	38281	7740550	15.13	142.21	11.76	0.47	0.14	0.53	1.34
Liaht-D-Trki	244573	7549	1518490	4.61	39.64	3.06	0.10	0.06	0.10	0.27
Light-D-Trk2	335701	10513	2113080	4.75	47.74	5.47	0.27	0.09	0.14	0.50
Mediu-D-Trk	140662	4240	880089	2.78	25.52	3.38	0.12	0.04	0.06	0.21
MOTOR CYCle	30987	228		1.10	3 46	0.29	0.01	0.00	0,00	0.01
LAM VEHICLE	1987533	6041.1	12314177	28.37	263.57	23.48	0.97	0.53	0,63	2.33
L-Heavy-D TI	20806	984	620714	0.90	3.76	2.14	0.01	0.01	0.01	0.04
L-Heavy-D T2	8220	354	205342	0.40	1.57	1.29	0.01	0.00	0.00	0.02
N-HRBUY-D T	22775	1113	731434	1.22	4.50	9.05	0.22	0.01	0.02	0.25
H-Heavy-D T	14429	2057	134506	1.73	11.54	23.35	0.38	0.06	0.03	0.49
HD TRUCK	66230	4508	1692056	4.25	25.39	35.86	0.62	0.10	0.06	0.80
Line Hadl V	c	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
School Sus	1685	62	6739	0.07	0.76	0.72	. 0.03	0.00	0.00	0.03
urban Bus	1963	214	7851	0.48	4.21	2,76	0.05	0.90	0.00	0.05
Notor Home	23246	292		0.13	3.57	0.58	0.01	0.00	0.60	0.01
ALL VEHICL	2080660	65489	14023200	33.30	297.51	43,41	1.67	0.45	0.91	3.23

Mote : I and M program in effect Emissions in tones per day, VMT in 1000-miles

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2030 CenterLine/Yorba Linda Station TCM Emissions

	Vehicle	VMT	Starts	ROG	CO	NOX	PN10Ex	Tire W	Brake W	PNLOSUK
Passengar Car	1791910	5408 F	11077300	5,47	45,26	2.96	0.69	0.48	0.75	1.91
Light-D-Trki	370213	10936	2256550 3090600	2.06	12.24	0.88	0.13	0.10 0.13	0.15 0.21	0.39 0.78
Light-D-Trk2 Wediu-D-Trk	508206 213699	1.4869 6701	1293250	3.49 1.74	23.70 12.96	2.01 1.15	0.44	0.05	0.09	0.33
MOTOr Cycle	38170	264	76332	1.10	6.49	0.31	0.01	6,00	0.60	0.01
LAH VEHTCLE	3922200	86357	17794022	13.86	100.65	7.31	1,46	0.76	2.20	3.42
L-Heavy-D Ti	23623	857	693472	0.91	1.69	1.15	0.01	0.01	0.01	0.01
L-Heavy-D T2	9294	362	227307	0.22	0.54	0.42	0.01	0.00	0.01	0.02
M-Heavy-D T	25807	1130		0,54	2.85	1.75	0.11	0.01	0.02	0.14
н-немуу-D Т	16338	2167	102672	0.77	4.62	5.51	0.17	0.09	0.03	G. 28
HD TRUCK	75062	4576	1442132	2.44	9.70	8.84	0.30	0.11	0.97	0.47
Line Hasil V	•	0	. 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
school bus	2163	80	8652	0.05	9.38	0.56	0.02	0.00	0.00	0.03
urban Bus	2520	275	10080	0.23	2,22	1.45	0.04	0.00	0.00	0.04
Motor Home	35627	447	3564	0.02	0.16	0.16	0.00	0,01	0.01	0.02
ALL VEHICL	3037580	*******************	19658500	16.59	113,11	18.75	1.83	0.89	1.27	3.99

Note: I and M program in effect Bmissions in tones per day, VMT in 1000-miles riine2 v30.pem

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2030 CenterLine/Yorba Linda Station Replacement TCM Emissions

Centerline R	eplaceme ac2002 v2.	nt Proje	ects Year	r 2030	d **	Orenge	County	Average		
Run Date : 09/1 Scen Year: 2031	09/05 13:5 0 Model	7:08								
Season : Sum		******	********	*******	******					*****
	Vehicle	WIT	Starts	ROG	œ	NOX	PHIOE	Tire N	Brake W	PHIOSUM
Passenger Car	1790750	54050	11070200	5.47	45.22	2.96	0.68	0 48	0.75	1.91
ight-D-Trkl	309976	10931	2255070	2,06	1.2 . 23	0.86 -	0.15	0 🚾	0.15	0.39
Light-D-Trk2	507877	14859	3058610	3.49	23.68	2.01	0.44	C.13	0.71	0.78
led tu-D-Trk	213561	6197		1.74	1.2.94	1.15	0.19	0.05	0.09	0.33
ector Cytle	38145	264	76283	1.10	6.40	0,31	0.01	Ú.00	0.00	0.01
AM VEHECLE	2920309	86301	17782583	13.56	100.56	7.31	1.47	6.76	1.20	3.42
L-Heavy-D-Ti	23623	857	693472	0.91	1,69	1,15	0.01	0.01	0.01	0.03
L-Heavy-D TZ	9294	362	227307	0.22	0.54	0.42	0.01	0.00	0.01	6.02
-Heavy-D T	25807	1120	418681	0.64	2.85	1.75	0.11	0.01	0.02	0.14
I-Heavy-D T	16338	2167	102672	0.77	4.62	5.51	0.17	0.99	0.03	Q. 28
ID TRUCK	75062	4576	1442132	2.44	9.70	1.14	0.30	0.11	0.07	0.47
Line Haul V	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
school Bus	2163	. 40	8652	0.05	0.38	0.56	0.02	0.00	0.00	6.03
urban Bus	2520	275	10080	0.25	2.22	1.65	6.04	9.00	0.00	0.04
Nozor Home	35627	447	3564	0.02	0.16	0.16	0.00	0.01	0.01	0.02
ALL VEHICL	3035680	91629	19647000	16.58	113.02	16.73	1.83	0.49	1.27	3.99

Note: I and M program in effect Brissions in tones per day, VMT in 1000-miles cope v30.prn

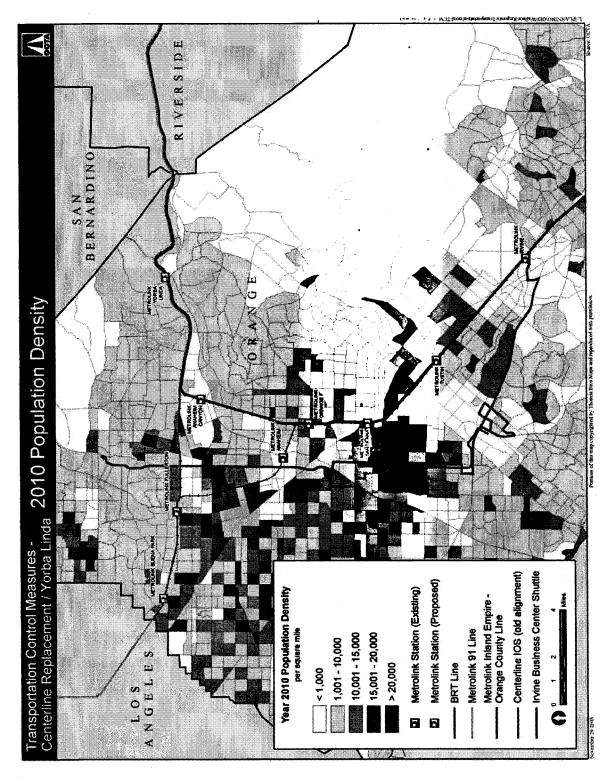
c:\OCTAmifac\EnfacyBasic\Enfactionden.ybo

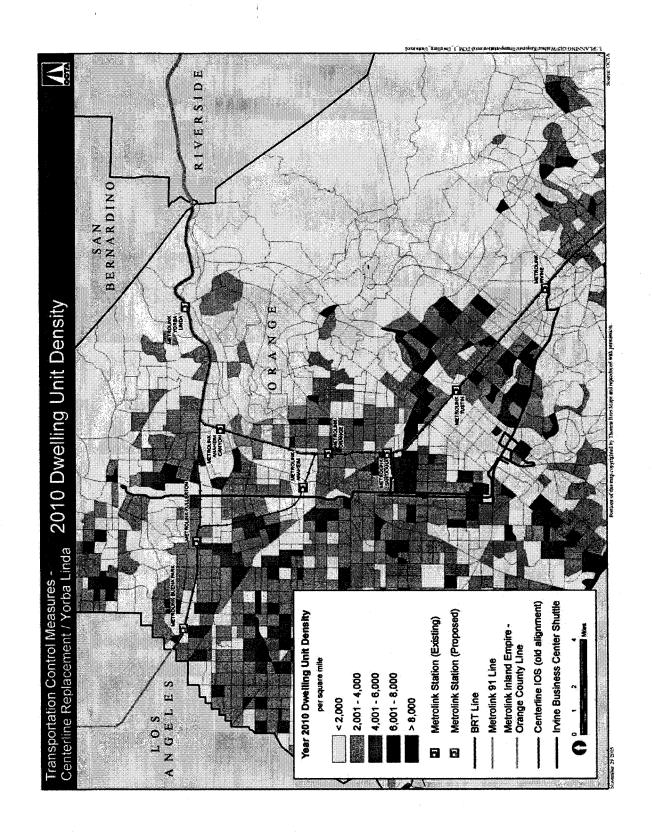
CenterLine/Yorba Linda Station TCM and TCM Replacement Bus Emission Calculations

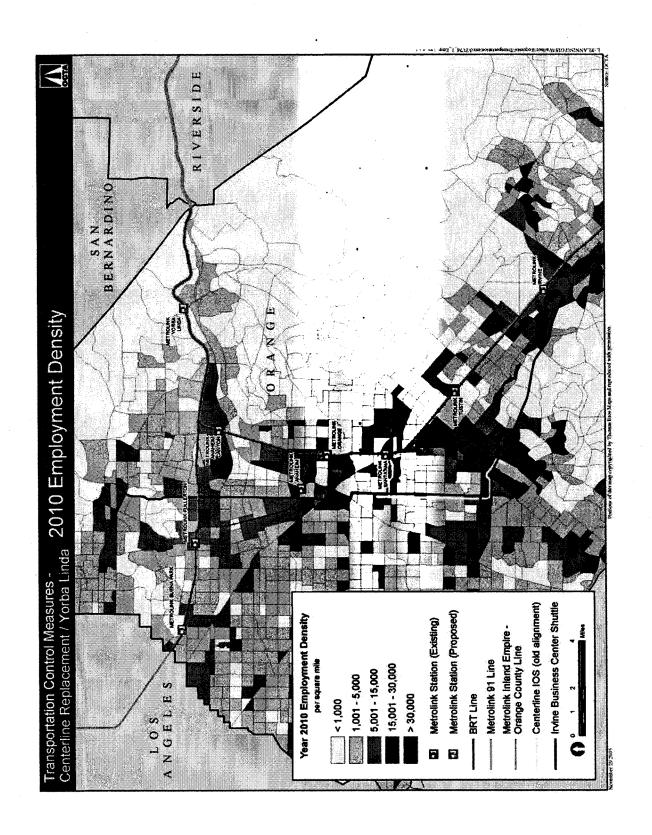
Bus/Train/Additional Emissions

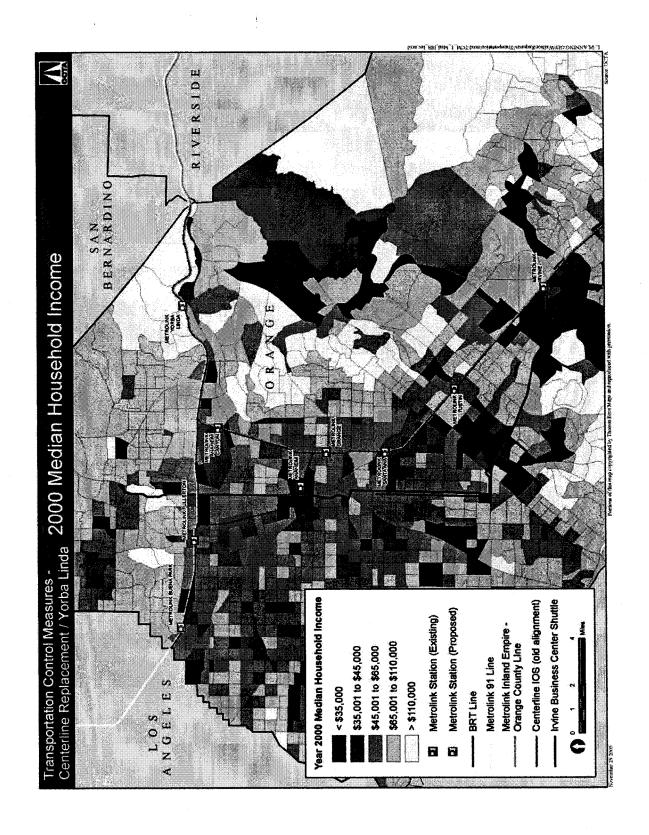
		Tons/Day	Tons/Day
CenterLine	,	2010	2030
	ROG	0.00	0.00
	NOX	0.02	0.01
	CO	0.03	0.01
	PM10	0.00	0.00
	PM10-Tire	0.00	0.00
	PM10-Brake	0.00	0.00
		Tons/Day	Tons/Day
CenterLine-			
Replacement		2010	2030
	ROG	0.00	0.00
	NOX	0.03	0.01
	СО	0.04	0.01
	PM10	0.00	0.00
		0.00	0.00
	PM10-Tire	0.00	0.00

Socio-Economic Data Maps: Population, Households and Employment









ATTACHMENT C

OCTA REQUEST FOR FOOTHILL TRANSPORTATION CORRIDOR-SOUTH/SR-241 AMENDMENT



AFFILIATED AGENCIES

Orange County Transit District

Local Transportation Authority

Service Authority for Freeway Emergencies

Consolidated Transportation Service Agency

> Congestion Management Agency

> > Service Authority for Abandoned Vehicles

November 28, 2005

Mr. Mark Pisano
Executive Director
Southern California Association of Governments
818 West Seventh Street, 12th Floor
Los Angeles, CA 90017

Dear Mr. Pisano:

The Orange County Transportation Authority (OCTA) requests the Southern California Association of Governments (SCAG) to prepare and approve a Regional Transportation Plan (RTP) and Regional Transportation Improvement Program (RTIP) amendment to formally modify the scope and implementation timeline for the Foothill Transportation Corridor South project. This project is currently listed as a TCM in the RTIP and will require a formal amendment process.

This amendment will modify the scope of the project to reduce the number of mixed flow lanes to be constructed in the outer years. Specifically, the current scope calls for two additional mixed flow lanes by 2015, and this amendment will change that to be one additional mixed flow lane by 2020. However, the near term construction of two mixed flow lanes in each direction, by 2010, is on schedule. This amendment will have no net impact on air quality emissions and should require no additional modeling.

OCTA would like this request to be included in amendment 2004-18, as previously submitted. Thank you for assistance in processing this request, SCAG's efforts are much appreciated.

Sincerely,

Paul C. Taylor

Executive Director, Planning,

Development and Commuter Services

ATTACHMENT D

OCTA RTIP AMENDMENT REQUEST AND NARRATIVE



AFFILIATED AGENCIES

Orange County Transit District

Local Transportation Authority

Service Authority for Freeway Emergencies

Consolidated Transportation Service Agency

> Congestion Management Agency

> > Service Authority for Abandoned Vehicles

November 28, 2005

Ms. Rosemary Ayala Southern California Association of Governments 818 W. Seventh Street, 12th Floor Los Angeles, CA 90017-3435

Dear Ms. Ayala:

The Orange County Transportation Authority (OCTA) is requesting an amendment to the 2004-2009 Regional Transportation Improvement Program (RTIP). The projects requested to be amended include those outlined in OCTA's October 28, 2005, letter requesting an amendment for the replacement of the CenterLine and Yorba Linda Station projects. These projects represent TCM replacements and have been discussed and reviewed at the TCWG. The replacement projects are all fully funded and OCTA is committed to delivering them within the specified timeframe.

Thank you for your assistance in processing this request. If you have any questions or require additional information, please contact me at (714)560-5462 or jbergener@octa.net.

Sincerely,

Jennifer Bergener

Manager, Capital Programs

enclosures

2004 REGIONAL TRANSPORTATION IMPROVEMENT PROGRAM Orange County Transportation Authority Amendment #04-18

				Formal or Admin
Agency	Project ID	Title	Changes Requested	Amendment Reason

State Highways System

TCA ORA052	(FTC-S) (I-5 TO OSO PKWY) (15 MI) 2 MF EA. DIR BY 2010; AND 2 ADDITIONAL M/F EA. DIR. PLS CLMBNG & AUX LANES AS REQ BY 2015 PER SCAG/TCA MOU 4/05/01.	CHANGE PROJECT DESCRIPTION TO: "(FTC-S) (I-5 TO OSO PKWY) (15MI) 2 MF EA. DIR BY 2010; AND 1 ADDITIONAL M/F EA. DIR. PLS CLMBNG & AUX LANES AS REQ BY 2020 PER SCAG/TCA MOU 4/05/01." DELETE PVT IN FY 2000-01, 2001-02, 2004- 05 TO \$0 ADD PVT IN FY2005-06 ENG \$5,000, FY2006-07 FNG \$20000 & RW \$35000	FORMAL
		FY2006-07 ENG \$20000 & RW \$35000, FY2007-08 ENG \$10000 & CON \$80000, FY2008-09 CON \$100000, FY2009-10 CON \$100000, DECREASE PVT IN FY2005-06 CON FROM \$235000 TO \$0 TOTAL PROJECT COST \$550,000, TOTAL PROGRAMMED IN 2004 RTIP TIMEFRAME \$350,000. (Note: There is \$200,000 programmed beyond the 2004 RTIP timeframe.)	

2004 REGIONAL TRANSPORTATION IMPROVEMENT PROGRAM Orange County Transportation Authority Amendment #04-18

				Formal or Admin
Agency	Project ID	Title	Changes Requested	Amendment Reason

Transit System Projects

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ATTACHMENT E

METROLINK LETTER REGARDING SERVICE EXPANSION



SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY

November 30, 2005

Mr. Mark Pisano **Executive Director** Southern California Association of Governments 818 West Seventh Street, 12th Floor Los Angeles, CA 90017

Dear Mr. Pisano:

Member Agencies: Los Angeles County Metropolitan Transportation Authority. Orange County Transportation Authority. Riverside County Transportation Commission. San Bernardino Associated Governments. Ventura County Transportation Commission. Ex Officio Members: Southern California Association of Governments. San Diego Association of Governments. State of California.

The Southern California Regional Rail Authority (SCRRA) operator of Metrolink commuter rail service in Southern California is working closely with the Orange County Transportation Authority (OCTA) toward the implementation of the OCTA Board-approved Metrolink Service Expansion Plan. To this end, OCTA has requested the inclusion of a significant rail car order, which has been added to the base order of the current SCRRA rail car procurement. Additionally, SCRRA staff, along with members of the SCRRA Technical Advisory Committee and consultants, worked with OCTA in development of the OCTA Service Expansion Plan. This same team is currently progressing toward the completion of the SCRRA Strategic Assessment, which will guide Metrolink's service planning into The SCRRA Assessment will include OCTA's service the next decade. assumptions as contained in the Service Expansion Plan. OCTA has committed to fully fund the proposed expanded service as outlined in the attached OCTA Board item, dated November 28, 2005. SCRRA as a joint powers authority of which OCTA is a member, is committed to working with OCTA to implement the expanded service.

SCRRA and its member agencies thank you for your assistance with implementing this plan.

Sincerely,

David Solow

Chief Executive Officer

enclosure



BOARD COMMITTEE TRANSMITTAL

November 28, 2005

To:

Members of the Board of Directors

WK

From:

Wendy Knowles, Clerk of the Board

Subject

Comprehensive Funding Strategy and Policy Direction, and Adoption

of the 2006 State Transportation Improvement Program

Regional Planning and Highways Committee

November 21, 2005

Present:

Directors Norby, Cavecche, Rosen, Dixon, Brown, Green, Monahan,

and Pringle

Absent:

Director Ritschel

Committee Vote

This item was passed by all Committee Members present.

Committee Recommendations

- A. Approve overall policy direction for programming of local, state, and federal funds.
- B. Approve a comprehensive local, state, and federal funding plan for \$1.455 billion from fiscal year 2005-06 through fiscal year 2010-2011
- C. Adopt the 2006 State Transportation Improvement Program
- D. Approve a Bristol Street Widening Project Funding Plan
 - 1. Commit to seek full funding in the amount of \$225 million for the Bristol Street Widening Project
 - 2. Program \$125 million in State Gas Tax Subvention funds in the period from fiscal year 2006-07 through fiscal year 2011-12 for the Bristol Street Widening Project.

Orange County Transportation Authority
550 South Main Street / P.O. Box 14184 / Orange / California 92863-1584 / (714) 560-OCTA (6282)



BOARD COMMITTEE TRANSMITTAL PAGE TWO

Committee Recommendations (Continued)

- 3. Direct the Chief Executive Officer to seek an additional \$100 million from other sources, including, but not limited to, federal appropriations, state grants or local funds to complete the Bristol Street Widening Project.
- 4. Direct the Chief Executive Officer to negotiate a cooperative agreement with the City of Santa Ana that defines the Orange County Transportation Authority's responsibilities for project funding of \$225 million and that City's responsibilities for project implementation.
- E. Approve the use of Measure M Transit funds for the Metrolink Service Expansion
- F. Authorize staff to process all necessary amendments to the State Transportation Improvement Program and Regional Federal Transportation Improvement Program as well as execute any necessary agreements to facilitate the above actions.

Attachment A has been revised (see Revised Attachment A)

Revised ATTACHMENT A

Comprehensive Funding Plan FY 2005-06 through FY 2010-11

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Notes

- 1 53 million proposed to come from Interregional Transportation Improvement Program (ITIP) funds
- 3 \$125 million from Gas Tax Subvention funds
- * \$10 million proposed to come from \$3 million preposed to come from interregional Transportation improvement Program (TYP) funds.
 * \$15 estimated from Invine Susiness Complex (IBC) developer fees.
- * \$15 estimated from Invine Business Complex (IBC) developer feet
 * Metrolink Expension plan has been escalated from 2006 \$ to Yes
- * 53 million is already funded with STIP funds. Total project cost is estimated at \$8 million.
- * 314.6 million is already funded with STIP and city funds. Total project cost is estimated at \$25 million.
 * 95.125 million is already funded with federal and oily funds. Total project cost is self-rusted at \$25 million.
- * 35.125 William Is Aready funded with federal and oily lunds. 1
 * Numbers may not add due to rounding.



November 21, 2005

To:

Regional Planning and Highways Committee

From:

Arthur T. Leahy, Chief Executive Officer

Subject:

Comprehensive Funding Strategy and Policy Direction, and

Adoption of the 2006 State Transportation Improvement Program

Overview

Orange County receives state and federal funds for use on transportation capital projects. With the recent passage of Safe, Accountable, Flexible, Efficient, Transportation Equity Act: A Legacy for Users, adoption of the 2006 State Transportation Improvement Program Fund Estimate, and action by the Board of Directors on the future of transit in Orange County, staff is recommending the adoption of a comprehensive state and federal funding plan along with adoption of the 2006 State Transportation Improvement Program.

Recommendations

- A. Approve overall policy direction for programming of local, state, and federal funds.
- B. Approve a comprehensive local, state, and federal funding plan for \$1.455 billion from fiscal year 2005-06 through fiscal year 2010-2011.
- C. Adopt the 2006 State Transportation Improvement Program.
- D. Approve a Bristol Street Widening Project Funding Plan.
 - 1. Commit to seek full funding in the amount of \$225 million for the Bristol Street Widening Project.
 - 2. Program \$125 million in state Gas Tax Subvention funds in the period from fiscal year 2006-07 through fiscal year 2011-12 for the Bristol Street Widening Project.

Orange County Transportation Authority 550 South Main Street / P.O. Box 14184 / Orange / California 92863-1584 / (714) 560-OCTA (6282)

- 3. Direct the Chief Executive Officer to seek an additional \$100 million from other sources, including, but not limited to, federal appropriations, state grants or local funds to complete the Bristol Street Widening Project.
- 4. Direct the Chief Executive Officer to negotiate a cooperative agreement with the City of Santa Ana that defines the Orange County Transportation Authority's responsibilities for project funding of \$225 million and that City's responsibilities for project implementation.
- E. Approve the use of Measure M Transit funds for the Metrolink Service Expansion.
- F. Authorize staff to process all necessary amendments to the State Transportation Improvement Program and Regional Federal Transportation Improvement Program as well as execute any necessary agreements to facilitate the above actions.

Background

There are five major funding sources for which staff is seeking programming policy direction. The table below summarizes the current Orange County Transportation Authority (OCTA) policy and the staff proposal for fiscal year (FY) 2005-06 though FY 2010-11 local, state, and federal funding programs. Attachment A identifies proposed funding sources for individual projects.

Funding Source	Current Policy	Proposed Policy FY 2005-06 through FY 2010-11
State Transportation Improvement Program	State Highway Projects, Grade Separations, soundwalls	Cost increases on current projects, chokepoints, Metrolink expansion, bus rapid transit, soundwalls
Congestion Mitigation and Air Quality Program	CenterLine light rail	High Occupancy Vehicle (HOV) connectors and drop ramps
Regional Surface Transportation Program	Competitive call to cities and county for local streets and roads	Competitive call to cities and county for local streets and roads and Countywide railroad grade separation projects
Transportation Enhancement Program	Competitive call to cities and County for bicycle and pedestrian projects	Competitive call to cities and county for bicycle and pedestrian projects
Measure M Transit	CenterLine light rail	Metrolink Service Expansion
Measure M Freeway	State Route 22 HOV and Widening, Interstate 5 Far North	State Route 22 - Interstate 405 HOV connectors
Orange County Gas Tax Exchange	Exchange with cities, use for bus operations	Fund up to \$125 million for Bristol Street widening

State Transportation Improvement Program (STIP)

The STIP is the major source of funding for transportation improvements in the State of California. Revenues from federal and state sources are consolidated into the STIP. The STIP is divided into two major funding categories, the Regional Improvement Program (RIP) and the Interregional Improvement Program (IIP). Seventy-five percent of the revenues are programmed to the RIP, which is then sub-allocated to counties by formula. In Orange County, OCTA dedicates these funds for use on projects of countywide significance. The remaining 25 percent is programmed to the IIP, which is then allocated to the California Department of Transportation (Caltrans) for projects of interregional significance.

Every two years, state and federal revenues are forecasted for the subsequent five-year period. OCTA is responsible for the development and programming of the RIP portion of the STIP revenues (RTIP), which is then submitted to the California Transportation Commission (CTC) for their approval and adoption. Consistent with Board of Directors (Board) policies, OCTA has programmed the RTIP capital projects by applying greater revenue allocations towards

freeway interchange and ramp improvements with a fair number of local transit-related projects including grade separations and rail stations.

As part of the 2002 STIP, approved by the Board February 25, 2002, OCTA held a balance in reserve of \$164 million for future programming on The CenterLine Project (CenterLine). However, the CTC did not approve a portion of Orange County's 2002 STIP, leaving an un-programmed balance of approximately \$199 million.

Congestion Mitigation and Air Quality (CMAQ) Program

The CMAQ program was established in 1991 as part of the Federal Intermodal Surface Transportation Efficiency Act (ISTEA). It was reauthorized under both the Transportation Equity Act for the 21st Century (TEA-21) and the Safe, Accountable, Flexible, Efficient, Transportation Equity Act: A Legacy for Users (SAFETEA-LU). Funds from CMAQ are directed to transportation projects that contribute to the attainment or maintenance of National Ambient Air Quality Standards in non-attainment or air quality maintenance areas.

The estimated annual program level for the state is \$360 million, which represents approximately 25 percent of the total federal program. Orange County's annual apportionment is approximately \$36 million. Consistent with federal guidelines, OCTA has programmed these funds towards large-scale capital projects that bring about emissions reduction benefits in the County. These projects have included construction of high-occupancy-vehicles (HOV) lanes, the Santa Ana Bus Base, procurement of alternate fuel buses, and a county-wide rideshare program.

Recent past Board policy has been to program CMAQ funds to CenterLine.

Regional Surface Transportation Program (RSTP)

The RSTP was also established by Congress in 1991 by ISTEA and reauthorized under TEA-21 and SAFETEA-LU. Funds from this program are intended to be directed to projects and programs for a broad variety of transit and highway work.

Board policy has been to program all RSTP funds as part of the Combined Transportation Funding Program (CTFP). These funds are made available to all cities and the County for local streets and roads rehabilitation and capacity

projects. In June 2005, OCTA allocated \$115 million in RSTP funds for local, streets and roads projects.

Transportation Enhancement (TE) Program

The TE program provides federal funding to transportation-related projects that enhance the quality of life in or around transportation facilities in Orange County. Projects in the TE program include aesthetic enhancements, such as landscaping and monuments signs, as well as bicycle and pedestrian facilities. The TE program is administered by the state and is programmed at the regional level by OCTA.

OCTA awards TE grants to local agencies through a competitive call for projects. Since 1998 the Board has awarded over \$33 million in funds to 58 regional projects. The annual funding for the TE program is estimated to be approximately \$3.5 million per year.

Measure M Transit Funds

Previously, remaining Measure M transit funds were planned for use on CenterLine.

Discussion

State Transportation Improvement Program

In accordance with federal and state regulations, every two years, in every even-numbered year, new revenues are estimated and programmed for the next five-year period.

Due to the on-going state budget crisis, the revenue mix that comprises the STIP has changed significantly. Currently, the STIP is funded through a combination of both federal and state revenues. Historically, the primary funding source had been the State Highway Account (SHA). Funds from the SHA are eligible for a wide range of projects on and off the state highway system. However, due to changes in transportation funding brought about by the passage of the Traffic Congestion Relief Act and the state budget shortfalls, these revenues have become difficult to predict and largely unavailable. In addition, a significant portion of the funds that are available are now being directed to the operation and maintenance of the state highway system.

Based on the 2006 STIP Fund Estimate, adopted by the CTC on September 29, 2005, it is likely that the largest revenue source for the 2006 STIP will be from the Public Transportation Account (PTA). The PTA is a trust fund for transportation planning and mass transportation purposes. The PTA is funded with revenues from state sales tax on gasoline and diesel fuel.

This change in the STIP funding sources will significantly affect the types of projects that OCTA programs in the STIP. The program focus will have to shift from freeway and road related improvements to mass transit and transportation planning related projects. Additionally, the \$199 million STIP reserve (that was designated for use on CenterLine) has been reduced to \$114 million (Attachment B).

In summary, the 2006 STIP fund estimate includes the following funding for Orange County:

- \$114 million un-programmed reserve balance
- \$ 74 million of previously unaccesible STIP share balance
- \$ 23 million Advanced funding of projects (Imperial Highway and Planning, Programming, and Monitoring)
- \$ 26 million of STIP previously programmed to CenterLine
- \$ 96 million of new capacity (available in fiscal years 2007-08 forward)
- \$ 6 million of new Transportation Enhancement Activities capacity

These sources combined provide Orange County with approximately \$339 million in programming capacity for the 2006 STIP.

County STIP proposals are due to the CTC January 30, 2006. The STIP development schedule is as follows:

Fund Estimate adopted by CTC
 Orange County STIP proposal due
 Final STIP adoption
 September 29, 2005
 January 30, 2006
 April 27, 2006

In development of the 2006 STIP, staff and Caltrans have reviewed the schedule and budget for all current STIP projects. Given the recent trends in material costs, and the fact that that most cost estimates were developed prior to the 2002 STIP, there have been significant cost increases associated with existing STIP projects. Staff proposes that all existing STIP projects be fully funded prior to the addition of any new projects. The overall cost increases are \$54.4 million and individual project cost changes are identified in

Attachment C. Additionally, staff proposes setting aside \$25 million in STIP funds for current STIP projects that are currently out to bid and have bid openings scheduled in December 2005.

Staff's proposal for OCTA's portion of the 2006 STIP is included as Attachment D.

Congestion Mitigation and Air Quality Program

Approximately \$216 million in CMAQ funds is expected to be available between from FY 2005-06 through FY 2010-11. Staff is recommending that \$210 million in CMAQ funds be programmed towards the completion of the HOV lane projects included in the Five-Year Program, adopted by the Board on October 14, 2005.

Staff recommends that the remaining \$4 million in CMAQ funds be programmed to continue the countywide rideshare program.

Regional Surface Transportation Program

Approximately \$29 million annually is made available to Orange County from the RSTP. Through FY 2010-2011 approximately \$174 million is expected to be made available to Orange County. Previous Board policy has been to program all RSTP funds as part of the CTFP. These funds are made available to all cities and the county for local streets and roads rehabilitation and capital improvement projects, including railroad grade crossing improvements and separations along the OCTA-owned portion of the Los Angeles to San Diego (LOSSAN) rail corridor and the Burlington Northern Santa Fe (BNSF) Railway Corridor in north Orange County.

As part of the 2005 CTFP call for projects, \$115 million was programmed to local streets and roads projects, and \$10 million was set aside for a future grade separation program.

With the passage of SAFETEA-LU, the RSTP funds made available to OCTA were approximately \$4 million higher per year than previously anticipated, for a total of \$20 million of additional funding. Based upon the three previously approved federal transportation acts, it is reasonable to assume that this program will continue into the foreseeable future. Staff proposes to add one more full year of RSTP funds, estimated at \$29 million, to the \$20 million for a total of \$49 million of available funding.

OCTA is facing two issues with this program. The first issue is how the recent material cost increases for asphalt, concrete, and steel will affect the number of projects that can be delivered with the existing funds. Staff proposes to work with the Technical Advisory Committee to prioritize funded rehabilitation projects within the limits of the current program commitments. The second issue is the significant interest in improving railroad grade separations in Orange County. OCTA staff recommends that the balance of \$49 million be programmed to railroad grade separation projects on the LOSSAN and BNSF corridors in Orange County through a future call for projects.

Transportation Enhancement Program

Staff proposes to continue the current policy of awarding TE grants to local agencies through a competitive call for projects for bicycle and pedestrian projects.

Bristol Street Widening

The recently adopted Five-Year Program also addresses the need to increase capacity on major arterial streets with countywide significance. One such project is the widening of Bristol Street. The project sponsor, the City of Santa Ana, has estimated the project cost at \$225 million. Staff proposes funding \$125 million of the project with Gas Tax Subvention funds that are made available to OCTA by the County of Orange as a result of the Orange County bankruptcy recovery plan. (These funds partially offset the transfer of Transportation Development Act funds from OCTA to the County of Orange as part of the Orange County bankruptcy recovery plan).

Currently, Gas Tax Subvention funds are exchanged with cities in Orange County for city general funds that can be used for bus operations. Staff proposes to end the exchange with the cities and program \$125 million in state Gas Tax Subvention funds in the period from FY 2006-07 through FY 2011-12 for Bristol Street widening. Staff will continue to seek the remaining \$100 million from other sources, including, but not limited to, federal appropriations, state grants or local funds to complete Bristol Street widening.

The programming for Bristol Street widening requires a companion action to maintain funding for bus operations: programming of \$125 million in STIP funds to fund the capital improvements required for the implementation of bus rapid transit in Orange County. This action will take advantage of the shift towards transit funding in the STIP program discussed earlier in this report.

Measure M Transit Funds

After the recent cancellation of CenterLine, the Measure M transit funds planned for use on that project are now available for use on another project that meets the requirements of Measure M. The Five-Year Program includes: expand Metrolink commuter rail service, extend the reach of Metrolink through the planning of city-initiated transit projects, and the Irvine Business Center circulator. OCTA staff is recommending that this expansion be primarily funded with Measure M Transit funds. Attachment E shows the project description for use of these funds from the Measure M expenditure plan approved by the voters. The description states, "the primary improvements will be along the LOSSAN rail corridor and designed to provide frequent train service between south and north Orange County . . ." The Metrolink expansion clearly meets this standard so no Measure M plan changes or amendments are necessary to reallocate these funds.

Metrolink Service Expansion

On November 14, the Board approved the Metrolink Service Expansion plan. At that time, staff committed to return with the funding plan for service expansion as part of this comprehensive funding plan. The total capital investment required for Metrolink service expansion is \$403 million (or \$383 million in 2005 dollars). Staff recommends using \$43 million in STIP funds and \$360 million in Measure M transit funds for Metrolink service expansion. Additionally, \$31 million is proposed (\$27 million of Measure M transit funds and \$4 million of STIP funds) for the environmental and design phases of an Orange County Metrolink maintenance facility.

Measure M Freeway Funds

The Measure M Freeway fund has a projected positive variance of \$150 million. These funds are not currently programmed to a project. Staff proposes to amend the Measure M expenditure plan and to program these funds to the Garden Grove Freeway (State Route 22), San Diego Freeway (Interstate 405) HOV connector project.

Federal Discretionary Funding

In addition to the total \$1.455 billion in the recommended comprehensive funding plan, federal discretionary funding is available to Orange County under provisions of SAFETEA-LU. Staff will continue to work with the County's

Congressional delegation on opportunities to appropriate federal funding to supplement and expand on the recommended plan. For example, staff has been discussing with the Federal Transit Administration OCTA's new transit vision and the Board-adopted Five-Year Program. Projects that may be well-suited to federal discretionary transit funding include:

- Additional Orange County-focused Metrolink improvements (e.g., capacity expansion north and east of Fullerton, a local maintenance facility, new trains)
- Design and construction of city-initiated rapid transit
- Construction of intermodal facilities such as the Anaheim Regional Transportation Intermodal Center
- Construction of additional drop ramps between transitway-HOV lanes and major activity centers.

Summary

Staff is presenting a comprehensive \$1.264 billion local, state, and federal funding program for the period FY 2005-06 through FY 2010-11. This comprehensive program identifies future uses of STIP, CMAQ, and Measure M transit and freeway funds, and confirms the existing use of federal RSTP funds. In addition, staff is presenting the 2006 STIP for Board approval.

Attachments

- A. Comprehensive Funding Plan FY 2005-06 through FY 2010-11
- B. Calculation of 2006 STIP Fund Estimate for Orange County
- C. 2004 STIP Project Cost Updates
- D. Proposed 2006 STIP Submittal Orange County Transportation Authority

E. Orange County Transit Project Descriptions

Prepared by:

Darrell E. Johnson

Department Manager, Programming

Development & Commuter Rail

(714) 560-5343

Approved by:

Paul C. Taylor, P.E.

Executive Director, Planning,

Development and Commuter Services

(714) 560-5431

Comprehensive Funding Plan FY 2005-06 through FY 2010-11

	Saur							Manage	Weenth		
		-	Status	STIP SHA	STIP PTA	STP TE	RSTP	CMAQ III Tremet	Freeway	Other	Yotal
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81 E/B Austiony Lane (Added to RCTC \$5 million for Design)*		3								3	
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Calculation of 2006 STIP Fund Estimate for Orange County

The \$199 million STIP reserve (that was designated for use on CenterLine) has been reduced to \$114 million. The reduction is due largely to the actual revenues being significantly less than the anticipated revenues in the previous fund estimate. Caltrans develops, and the CTC adopts, the fund estimate consistent with existing state law and reasonably anticipated revenues from each source. Then the estimate is adjusted over time to reflect actual revenues, and each county's share is adjusted in the following fund estimate to reflect actual revenues received.

The STIP is also subject to county share periods. The share periods represent a four-year cycle in which the CTC calculates the funding available to each county through the STIP. Due to loans, shifts, and transfers to balance the state budget, the 2004 STIP included no new funding capacity. However, under state law, the county share was still required to be calculated as if the funding was available. Orange County's calculated share was approximately \$74 million.

Additionally, OCTA has available \$23 million accessible through provisions made available under Assembly Bill (AB) 3090. Due to the state budget crisis and the unavailability of STIP funds, the Board authorized staff to utilize the provisions made available under AB 3090 for two projects programmed in the 2004 STIP. Through this process, a local agency may fund an existing STIP project with other funds and be reimbursed or receive a replacement project at a later date. This enables projects to continue moving forward in the absence of state funding. The two projects that utilized this provision were the Imperial Highway Grade Separation, (\$19 million) and the Planning, Programming, and Monitoring (PPM) program (\$3 million).

In summary, the 2006 STIP fund estimate includes the following funding for Orange County:

- \$114 million un-programmed reserve balance
- \$ 74 million of previously unaccesible STIP share balance
- \$ 23 million AB 3090 projects (Imperial Highway and PPM)
- \$ 26 million of STIP previously programmed to CenterLine
- \$ 96 million of new capacity (available in fiscal years 2007-08 forward)
- \$ 6 million of new Transportation Enhancement Activities capacity

These sources combined provide Orange County with approximately \$339 million in programming capacity for the 2006 STIP.

2004 STIP - Project Cost Updates

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Proposed 2006 STIP Submittal Orange County Transportation Authority

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120	CCTA has programmed against uns project.											•		

Orange County Transit Project Descriptions

High-Technology Advanced Rail Transit

Description:

This project would further develop the existing rail right-of-way and initiate a high capacity urban rail system in Orange County. This 20-Year Plan element will also provide matching funds to encourage local development of extensions to major activity centers.

The primary improvements will be along the LOSSAN rail corridor and designed to provide frequent train service between south and north Orange County with nine stops at San Juan Capistrano, San Clemente, Mission Viejo, Irvine, North Irvine, Santa Ana, Anaheim, Fullerton, and Buena Park.

The extension will provide access between the primary rail system and employment centers. Two of the potential candidate projects are the Anaheim People Mover Project and the Irvine Spectrum to John Wayne Airport Fixed Guideway transit line that could ultimately extend further west to the South Coast Metro area and beyond.

Location:

This project would use the Santa Fe/Amtrak line from San Clemente to Buena Park.

Technology and Ridership Estimates:

Selection of technology, ridership estimates and system costs need further analysis and studies.

Costs:

The total capital cost of the urban rail improvements could exceed \$800 million. Rail extension costs will be determined pending selection of technology. It is recommended that \$340 million be allocated toward this system. System connectivity, ridership/performance and availability of matching funds will be used as criteria to determine the relative priority of investment in the system.

Implementation:

Planning work on this project will begin immediately. The goal is to implement the project(s) during the second 10 years of the plan.

Reference:

Transit Strategy Report, April 1989, Orange County Transportation Commission, prepared by Parsons Brinckerhoff Quade & Douglas, Inc.

REPORT

DATE:

February 2, 2006

TO:

Energy and Environment Committee (EEC)

FROM:

Jessica Kirchner, Associate Regional Planner, (213)236-1983, kirchner@scag.ca.gov

SUBJECT:

Riverside County TCM Replacement

EXECUTIVE DIRECTOR'S APPROVAL:

RECOMMENDED ACTION:

Approve the Riverside County TCM Substitution in the 2004 Regional Transportation Improvement Program (RTIP) subject to a 30-day public review and comment period.

SUMMARY:

The Riverside County Transportation Commission (RCTC) is submitting a request on behalf of the City of Corona for the replacement of a Transportation Control Measure (TCM). The procurement of three expansion buses (RTIP ID: RIV010511) for Corona's fixed-route bus way is delayed due to lack of demand on the current route. Based on City of Corona projections, it is anticipated that demand will not be sufficient to warrant the proposed expansion for another three to five years. Therefore, RCTC is proposing a 60 space park-and-ride lot in the City of Corona as a replacement for this TCM. The proposed park and ride will be operational in early 2006. Based on demand information provided by RCTC and SCAG's emissions analysis, SCAG has determined that the proposed park-and-ride lot will provide adequate emissions benefits to replace the existing TCM. In addition, the proposed replacement meets the requirements for a TCM replacement.

This item is scheduled to go to the Regional Council for adoption on March 2, 2006. The public review period ends on March 1, 2006; comments received will be incorporated in the final staff report at that time.

BACKGROUND:

The 2004 RTIP included project ID RIV010511 which consisted of three expansion buses for the City of Corona fixed-route bus way (Green Line). This project is a TCM and has a completion date in the 2004 RTIP of December 31, 2006. Due to insufficient ridership on the Green Line, the City of Corona does not see the need to expand service for another three to five years. Therefore, it is necessary to replace the TCM.

The proposed TCM replacement includes leasing a 60 space park-and-ride lot in the City of Corona. The park-and-ride would primarily serve local residents car or bus-pooling in or out of Riverside County. The emissions analysis below demonstrates the benefits of the proposed TCM replacement as compared to the existing three bus procurement.

ANALYSIS

Three Expansion Vehicles

The average Green Line trip length would be 3.03 miles with approximately 12,634 trips.

Carpool/Vanpool Park and Ride (60 spaces)



REPORT

The average trip length would be approximately 24.5 miles (assuming Corona to Orange County) with approximately 22,656 trips.

VMT/Emissions Reductions (pounds per year)

	VMT	ROG	CO	NOx	PM10
Green Line (3					
bus procurement)	38,281	41.2	395.5	84.8	4.1
Park and Ride	555,072	597.6	5735.1	1229.7	59.0

Based on SCAG's analysis, the proposed park-and-ride would provide significantly greater emissions reductions.

TCM REPLACEMENT SUMMARY

Interagency Consultation. Interagency consultation occurred at SCAG's publicly noticed Transportation Conformity Working Group meeting on December 20, 2005.

Equivalent Emissions Reduction. As demonstrated, the proposed TCM replacement provides for significantly more emissions reductions than the original TCM.

Similar Geographic Area. Both projects are located within the City of Corona and would primarily serve Corona residents.

Full Funding. The proposed project will be funded with local Measure A funds to support, implement and maintain the park-and-ride.

Similar Time Frame. The proposed project will be operational by December 2006, the proposed completion date of the original TCM.

Timely Implementation. The replacement project will be monitored through TCM Timely Implementation Reports that SCAG submits to the federal agencies (FHWA).

Legal Authority. RCTC has full legal authority to implement and operate the replacement project.

SCAG Review and Adoption. After Committee approval, the replacement TCM will be presented to SCAG's Regional Council for adoption.

Implementation Commitment. After approval by the Regional Council, the replacement project will be added to the RTIP through an administrative amendment.

Attachment: Riverside County request for replacement and supporting documentation.

FISCAL IMPACT:

Funds for air quality and conformity analysis are included in the FY 05/06 Overall Work Program.



RCTC Corona Park-and-Ride TCM Substitution Request for Corona's 3 Expansion Buses



Fiscal Year	Passenger Trips	Annual Change %	Fixed Route Lines	Notes
FY 2001*	13,560	N/A	Green & Blue Lines	While Corona's passenger trips have
FY 2002	43,356	219.73%	Green & Blue Lines	continued to increase, the annual net
FY 2003	102,687	136.85%	Red and Blue Lines	growth rate from year to year has not sustained the previous year growth
FY 2004	142,062	38.34%	Red and Blue Lines	changes indicating ridership is clsing in
FY 2005	162,423	14.33%	Red and Blue Lines	on demand saturation. In FY 2003,
FY 2006*	150,628	-7.26%	Red and Blue Lines	Corona discontinued the Green line due
months would equonly be 33.22% g	ual about 32,544 trips. Th	e net change between	FY 01 and 02 would then	to poor performance and replaced it with the better performing Red line.

Cincol Voor	Corona Criuser I	Passenger Trips	by Line	Total	Notes			
Fiscal Year	Blue Line	Green Line	Red Line	1 rotai				
FY 2001*	10,305	3,255	N/A	13,560	In FY 2003, Corona discontinued the			
FY 2002	30,722	12,634	N/A	43,356	Green line due to poor performance and			
FY 2003	37,445	N/A	65,242	102,687	replaced it with the Red line. The FY 2002 passenger trips supported the			
FY 2004	48,412	N/A	93,650	142,062	Green line being discontinued because			
FY 2005	66,603	N/A	95,820	162,423	would have performed at less than 25%			

Summary of Line Changes:

- 1. Corona's original plan was to initiate 3 lines of service (Blue, Green and Red lines)
- 2. Corona initiated Phase 1 of service in FY 2001 by implementing the Blue and Green lines.
- 3. Three expansion buses were estimated to be needed for the third line.
- 4. Over a 17 month period the Green line performed poorly resulting in it being discontinued in FY 2003.
- 5. Corona implemented the Red line in FY 2003.
- Working with RTA, RTA modified their routes to add service which over time also negated a further need for Corona to implement a third line and purchase the three expansion buses.
- In 2003 Corona had three lines of fixed route transit service. As of 2005, there are now 6: 2 by Corona and 4 by RTA.

TCM Substitution Benefits Analysis:

Green line passenger trips saved from SOV use = 12,634 (based on the 2001 actual trip data)

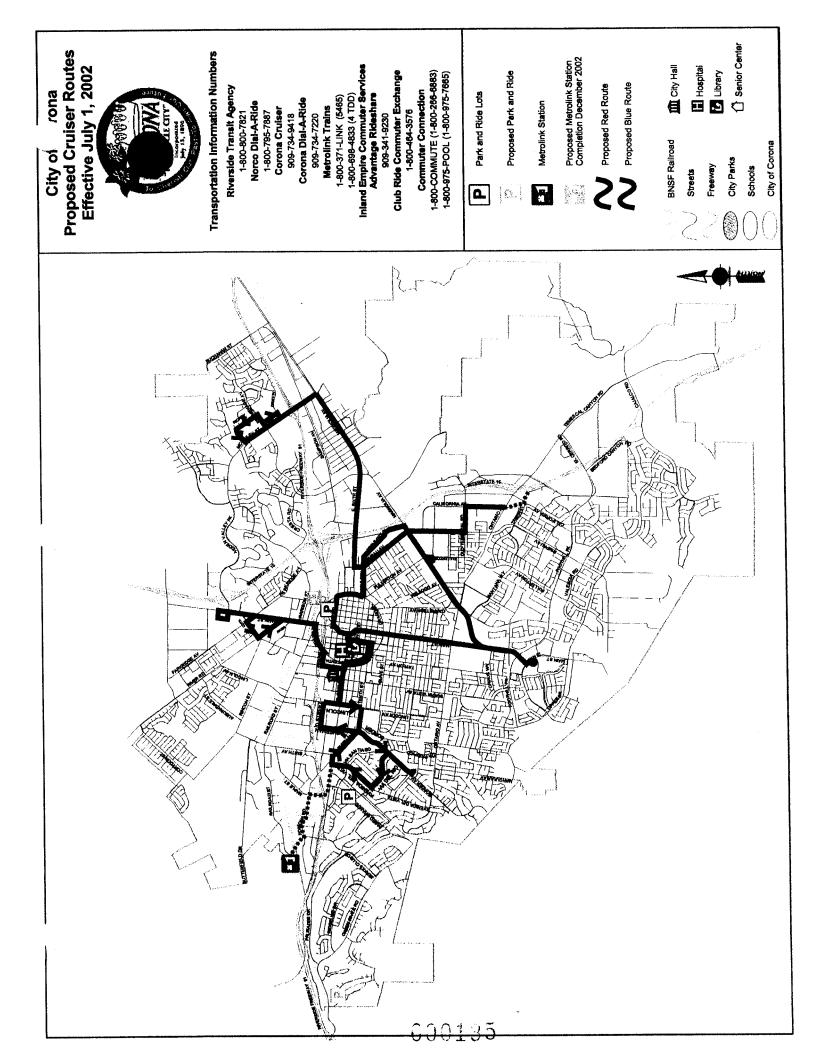
Passenger trips anticpated to be saved by the Corona Park-and-Ride lot (at 1114 W. Ontario Ave) are as follows: Number of spaces = 60. Projected use =80% (or 48 spaces). Number of days spaces will be used 5 days/week (business work days). Each space occupied = 2 passenger trips saved

5 work days/week x 52 weeks = 260 days. Subtract 24 days for holidays and vacations = 236 days.

48 spaces x 236 days x 2 passenger trips = 22,656 passenger trips saved from the park-and-ride lot as compared to 12,634 from 3 buses for the Green line.

Corona Cruiser Red and Blude Line Fixed Route Vehicle Inventory

Year	Manufacturer	Model	Seats	Vehicle
1998	Goshen	Sentry	18	1
1998	Goshen	Sentry	18	1
1999	Goshen	Sentry	18	1
1999	Goshen	Sentry	18	1
1999	Goshen	Sentry	18	1
		Total Number of Vehicles:		5



Existing Cruiser Routes rona City o



Transportation Information Numbers Riverside Transit Agency 1-800-698-4833 (4 TDD) Inland Empire Commuter Se Advantage Rideshare 1-800-371-LINK (5465 1-800-800-7821 Norco Dial-A-Ride 909-734-9418 Corona Dial-A-Rid Corona Cruiser **Metrolink Trains** 1-800-795-7887 909-734-7220

Commuter Connection 1-800-COMMUTE (1-800-286-8883) 1-800-975-POOL (1-800-975-7665) Club Ride Commuter Exchange 1-800-464-3576 909-341-9230

<u>a</u>

Park and Ride Lots

Proposed Park and Ride

Metrolink Station

Proposed Metrolink Station Completion December 2002

Cruiser Green Route

Cruiser Blue Route 25

BNSF Railroad

City Hall

Freeway Streets

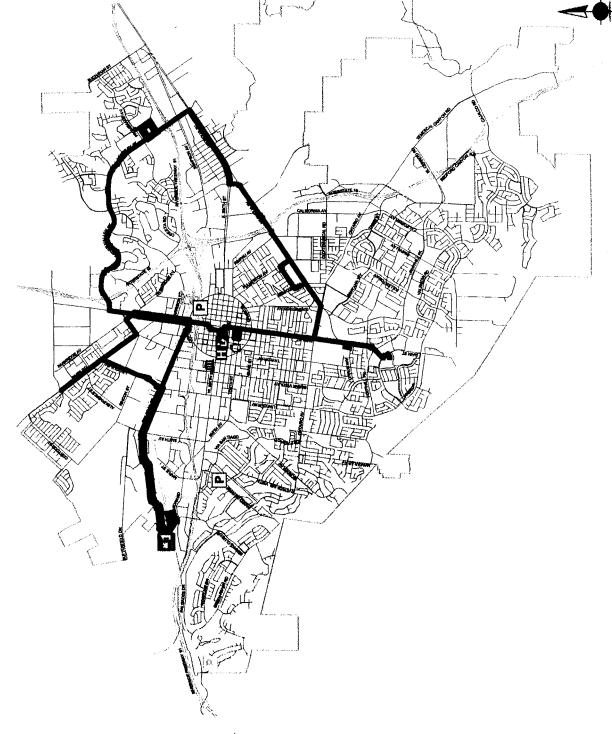
City Parks

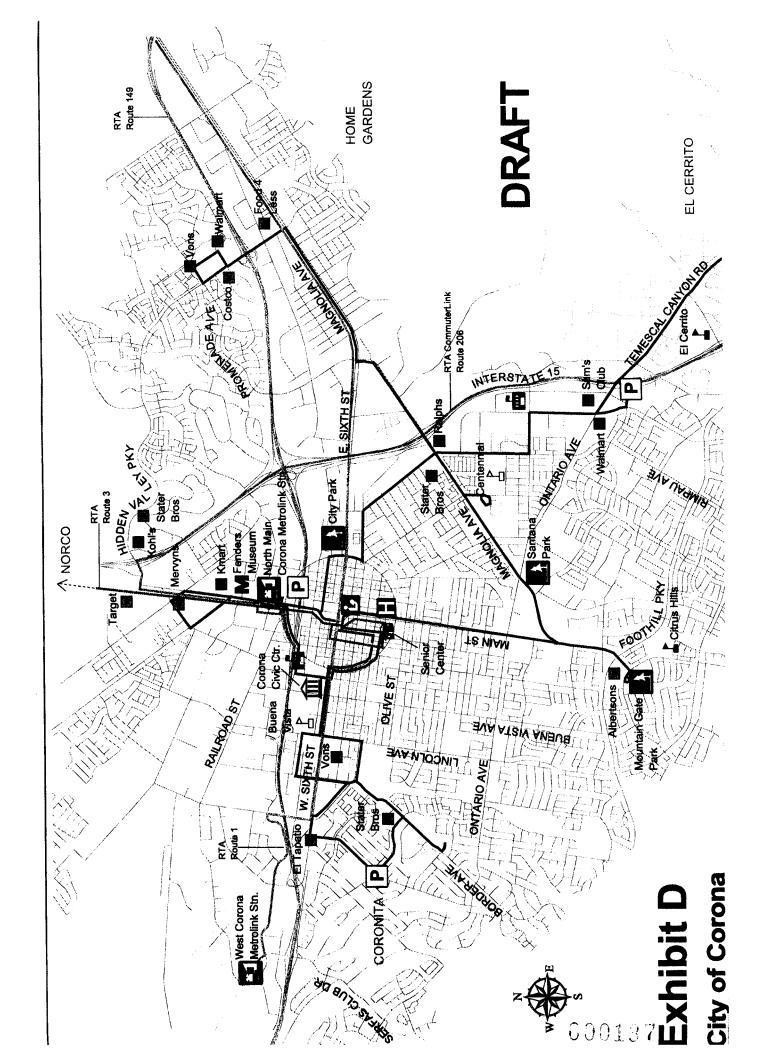
☐ Hospital
☐ Library
☐ Senior Center

Schools

City of Corona

000136







Riverside County Regional Complex 4080 Lemon Street, 3rd Floor • Riverside, California Mailing Address: Post Office Box 12008 • Riverside, California 92502-2208 Phone (951) 787-7141 • Fax (951) 787-7920 • www.rctc.org







November 30, 2005

Sylvia Patsaouras
Manager, Environmental Planning Division
Planning and Policy Department
Southern California Association of Governments
818 West Seventh St, 12th Floor
Los Angeles, CA 90017

Re: RCTC TCM Project Substitution Request for the City of Corona

sercises.

Dear Sylvia:

RCTC is submitting a TCM project substitution request on behalf of the City of Corona for their existing three expansion bus procurement project (RTIP ID RIV010511). The project has been delayed due to insufficient ridership demand to implement a new third fixed route in the City of Corona. Corona's present demand analysis indicates that ridership for a third route may not materialize for another three to five years. When sufficient and sustained ridership becomes evident, Corona will again move forward to implement a third route. The three expansion buses will then be added to their Short Range Transit Plan and funding via 5307, TDA4, or other funds will be made available to procure the buses.

As a suitable substitute, we are submitting a new 60 space park-and-ride lot that will be implemented in the City of Corona during early 2006. RCTC requests that SCAG staff evaluate the park-and-ride lot benefits as a TCM substitute for Corona's three bus procurement project.

Presently, the park-and-ride lot is not programmed in the 2004 RTIP. RCTC will use local Measure A funds to support, implement, and maintain the new park-and-ride lot. The location of the park-and-ride lot is in the Corona area and will provide direct benefits to Corona residents. Please direct any questions concerning this request to Shirley Medina or Ken Lobeck at (951) 787-7141.

Sincerely,

Cathy Bechtel

Division Head, Planning

cc: Jessica Kirchner

Attachments:

- 1. RIV010511 RTIP TIP Sheet
- 2. TCM Substitution Overview

SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

Print Date: 11/23/20

2006 Federal TIP (FY 2006/2007 - 2011/2012)

PROJECT REPORT

All Transit County: All

Project ID RIV010511

SORT: BY SOURCE

Final County Tip

Change Reason C/O 2004 Completion Date 12/31/06 Basin SCAB Model # T317 0 Amend # CITY OF CORONA -- PURCHASE 3 EXPANSION VEHICLES FOR A NEW (THIRD) FIXED ROUTE County RIVERSIDE Lead Agency CORONA Source/FTIP OFFTIP Env. Doc. CE **TCM ∀** Description: System T Program BUN93 to 0.00 Post Mile 0.00 Element 2 Route

Yr Added 2001

000139

FTA

Subtotal Subtotal **Fund Total** \$420 \$420 \$87 \$87 \$507 Eng. Cost R/W Cost Cons. Cost 420 87 8 2005/2006 2005/2006 YEAR **Fund Name** TDA4 5307 LOCAL

C/O 2002 RTIP. Frequency/headways = Approx 50 minutes. Bus stops = 90, Fares: Regular=\$1.00, Students=\$0.75, Seniors/Disabled=\$0.50 Comments:

\$507

Total Cost:

(Funds are in thousands of dollars)

RIV010511 Project

Page:

1 of 1



TCM Substitution Overview

Existing RTIP TCM Project

RTIP ID:

RIV010511

Lead Agency:

City of Corona

Description:

Purchase 3 Expansion Vehicles for a New (Third) Fixed Route

Proposed Vehicles: 16-18 passenger medium sized buses

Project Status:

During development of the recent FY 06 Short Range Transit Plan,

Corona staff provided RCTC a status update that their latest ridership projections did not support a third line expansion and warrant the procurement of the three expansion vehicles at this

time.

Proposed Substitution Project

Project:

Park and Ride Lot

Lead Agency:

RCTC

Location:

Faith Bible Church

1114 W. Ontario Ave, Corona CA,

Spaces:

60 spaces

Projected Use:

80-90%

Users:

Car pools and van pools originating from the Corona area

Implementation

Date:

By about February 2006

Status:

Completing lease agreement

In RTIP:

No

RTP Consistency:

Yes. Reference Commuter Assistance line item in the 2004 RTP, page I-161, "RCTC Commuter Assistance Program; Rideshare and

Other Incentive Programs, TDM (Telecommute, Park and Ride,

etc.)"

Agreement No.: 06-41-554

- Signs to be installed by Caltrans: 5- Park & Ride signs with double arrows 2- Park & Ride signs with left arrows 2- Park & Ride signs with right arrows

